

AUTHOR INDEX

Volumes 83, 84, 85, 86, and 87, 1991

- ABBAS, T., COSTA, M., COSTEN, P., and LOCKWOOD, F.
Nitrous Oxide Emissions from an Industry-Type
Pulverized-Coal Burner, 87: 104
- ADOMEIT, G.: see Nacken, A.
- AGGARWAL, S. K.: see Mawid, M.
- AGRAWAL, S.: see Wichman, I. S.
- AGRAWAL, S. R.: see Mulholland, J. A.
- ALFARAYEDHI, A. A.: see Branch, M. C.
- ALTENKIRCH, R. A.: see Bhattacharjee, S.
- ALY, S. L.: see Elkotb, M. M.
- ÂMAND, L.-E., and LECKNER, B.:
Influence of Fuel on the Emission of Nitrogen
Oxides (NO and N₂) From an 8-MW Flu-
idized Bed Boiler, 84: 181
- AMROGOWICZ, J., and KORDYLEWSKI, W.:
Effectiveness of Dust Explosion Suppression by
Carbonates and Phosphates, 85: 520
- ANDERSON, R. W.: see Ko, Y.
- ANDREWS, G. E.: see Phylaktou,
- ANNARUMMA, M. O., MOST, J. M., and JOULAIN, P.
On the Numerical Modeling of Buoyancy-
Dominated Turbulent Vertical Diffusion
Flames, 85: 403
- APTE, V. B., BILGER, R. W., GREEN, A. R., and QUINTIERE, J. G.
Wind-Aided Turbulent Flame Spread and Burn-
ing Over Large-Scale Horizontal PMMA
Surfaces, 85: 169
- ARIS, R.: see Song, X.
- ARPACI, V. S.: see Ko, Y.
- ARPACI, V. S., and SELAMET, A.
Buoyancy-Driven Turbulent Diffusion Flames
86: 203
- AXFORD, S. D. T., CAI, W., HAYHURST, A. N., and COLLINGS, N.
Chemi-Ionization Produced by the Catalytic
Combustion of a Hydrocarbon, 87: 211
- BABKIN, V. S., KORZHAVIN, A. A., and BUNEV, V. A.
Propagation of Premixed Gaseous Explosion
Flames in a Porous Media, 87: 182
- BARDON, M. F., and RAO, V. K.
Estimating Instantaneous Properties of Vaporiz-
ing Light Petroleum Fractions, 84: 427
- BARLOW, R. S.: see Stårner, S. H.
- BATES, S. C.
Further Insights Into SI Four-Stroke Combus-
tion Using Flame Imaging, 85: 331
- BAULCH, D. L., GRIFFITHS, J. F., and RICHTER, R.
Free Radical and Atom Activity at a Pyrex Glass
Surface as a Source of Sodium D Line
Emissions During Combustion Reactions,
85: 271
- BECK, N. C., and HAYHURST, A. N.
The Early Stages of the Combustion of Pulver-
ized Coal at High Temperatures III: The
Production of Nitrogen Oxides during
Devolatilization, 87: 306
- BEÉR, J. M.: see Kang, S.-W.
- BENARD, D. J.: see Seder, T. A.
- BEST, P. E., CHIEN, P. L., CARANGELO, R. M., SOLOMON, P. R.,
DANCHAK, M., and ILOVICI, I.
Tomographic Reconstruction of FT-IR Emission
and Transmission Spectra in a Sooting
Laminar Diffusion Flame: Species Concen-
trations and Temperatures, 85: 309
- BHATTACHARJEE, S., and ALTENKIRCH, R. A.
The Effect of Surface Radiation on Flame
Spread in a Quiescent, Microgravity Envi-
ronment, 84: 160
- BIDANI, M.: see Lifshitz, A. 229
- BILGER, R. W.: see Apte, V. B.
- BILGER, R. W.: see Mansour, M. S.
- BILGER, R. W.: see Stårner, S. H.
- BLAKE, T. R., and LIBBY, P. A.
Combustion of a Spherical Carbon Particle in
Slow Viscous Flow, 86: 147
- BLINT, R. J.: see Drake, M. C.
- BLOCK, S.: see Miller, P. J.
- BOGUE, D. R.: see Cetegen, B. M.
- BONCZYK, P. A.
Effect of Ferrocene on Soot in a Revaporized
Iso-Octane/Air Diffusion Flame, 87: 233
- BONIN, M. P., and QUIEROZ, M.
Local Particle Velocity, Size, and Concentration
Measurements in an Industrial-Scale Pulver-
ized Coal-Fired Boiler, 85: 121
- BORIS, J. P.: see Kailasanath, K.
- BORRAJO, J. L.: see Torrent, J. G.
- BRADLEY, D.: see Dixon-Lewis, G.
- BRADLEY, D., DIXON-LEWIS, G., EL-DIN HABIK, S., EL-SHERIF,
S., and KWA, L. K.
Laminar Flame Structure and Burning Velocities
of Premixed Methanol-Air, 85: 105
- BRADLEY, D., EL-DIN HABIK, S., and EL-SHERIF, S. A.
A Generalization of Laminar Burning Velocities
and Volumetric Heat Release rates, 87: 336

- BRANCH, M. C.: see Dindi, H.
- BRANCH, M. C., SADEQI, M. E., ALFARAYEDHI, A. A., and VAN TIGGELEN, P. J.
Measurements of the Structure of Laminar, Premixed Flames of $\text{CH}_4/\text{NO}_2/\text{O}_2$ and $\text{CH}_2\text{O}/\text{NO}_2/\text{O}_2$ Mixtures 83: 228
- BRAY, K. N. C., CHAMPION, M., and LIBBY, P. A.
Premixed Flames in Stagnating Turbulence: Part I. The General Formulation for Counterflowing Streams and Gradient Models for Turbulent Transport, 84: 391
- BRENTON, J.: see Thomas, G. O.
- BREWSTER, M. Q.: see Ishihara, A.
- BREZINSKY, K.: see Linteris, G. T.
- BRILL, T. B.: see Chen, J. K.
- BRILL, T. B.: see Gao, A.
- BRILL, T. B.: see Palopoli, S. F.
- BRILL, T. B.: see Patil, D. G.
- BRILL, T. B.: see Stoner, C. E., Jr.
- BROWN, R. C.: see Yetter, R. A.
- BUCKMASTER, J. D., JOULIN, G., and RONNEY, P. D.
The Structure and Stability of Nonadiabatic Flame Balls: II. Effects of Far-Field Losses, 84: 411
- BUNEV, V. A.: see Babkin, V. S.
- CAI, W.: see Axford, S. D. T.
- CAMINAT, P., and SAATDJIAN, E.
The Oxidation of Solid Granite Using a 5 kW CO_2 Laser 86: 249
- CAMPOLATTARO, A. A.: see Sharma, J.
- CANTALAPIEDRA FUCHS, J.: see Torrent, J. G.
- CANU, P.: see Rota, R.
- CARANGELO, R. M.: see Best, P. E.
- CARD, J. B. A., and JONES, A. R.
A Light Scattering Method to Discriminate between Coal and Fly Ash Particles Dispersed in Air 86: 394
- CARNASCIALI, F., LEE, J. H. S., KNYSTAUTAS, R., and FINESCHI, F.
Turbulent Jet Initiation of Detonation, 84: 170
- CARRA, S.: see Rota, R.
- CARROLL, H. F.: see Lifshitz, A.
- CATLIN, C. A.
Scale Effects on the External Combustion Caused by Venting of a Confined Explosion, 83: 399
- CATLIN, C. A., and LINDSTEDT, R. P.
Premixed Turbulent Burning Velocities Derived from Mixing Controlled Reaction Models With Cold Front Quenching, 85: 427
- CELIK, I., and WANG, Y.-Z.
Pulsating Gas-Solid Flow Inside a Bench-Scale Reactor, 84: 225
- CETEGEN, B. M., and BOGUE, D. R.
Combustion in a Stretched Fuel Strip with Finite Rate Chemistry 86: 359
- CHAMPION, M.: see Bray, K. N. C.
- CHANG, H.: see Charalampopoulos, T. T.
- CHARALAMPOPOULOS, T. T., and CHANG, H.
Agglomerate Parameters and Fractal Dimension of Soot Using Light Scattering-Effects on Surface Growth, 87: 89
- CHEN, C., RILEY, J. J., and McMURTRY, P. A.
A Study of Favre Averaging in Turbulent Flows with Chemical Reaction, 87: 257
- CHEN, C.-H., and HOU, W.-H.
Diffusion Flame Stabilization and Extinction Under Naturally Convective Flows, 83: 309
- CHEN, C. L., and SOHRAB, S. H.
- CHEN, J. K., and BRILL, T. B.
Chemistry and Kinetics of Hydroxyl-terminated Polybutadiene (HTPB) and Diisocyanate HTPB Polymers during Slow Decomposition and Combustion-like Conditions, 87: 217
- CHEN, J. K., and BRILL, T. B.
Thermal Decomposition of Energetic Materials 50. Kinetics and Mechanism of Nitrate Ester Polymers at High Heating Rates by SMATCH/FTIR Spectroscopy, 85: 479
- CHEN, J. K., and BRILL, T. B.
Thermal Decomposition of Energetic Materials 54. Kinetics and Near-Surface Products of Azide Polymers AMMO, BAMO, and GAP in Simulated Combustion, 87: 157
- CHEN, L.-D.: see David, R. W.
- CHEN, L.-D.: see Lyu, H.-Y.
- CHEN, L.-D.:
Simultaneous Effects of Fuel/Oxidizer Concentrations on the Extinction of Counterflow Diffusion Flames 86: 383
- CHEN, R.-H.: see Feikema, D.
- CHEN, Y., FRENDI, A., TEWARI, S. S., and SIBULKIN, M.
Combustion Properties of Pure and Fire-Retarded Cellulose, 84: 121
- CHENG, M. T.: see Miller, G. P.
- CHENG, R. K., and SHEPHERD, I. G.
The Influence of Burner Geometry on Premixed Turbulent Flame Propagation, 85: 7
- CHIEN, P. L.: see Best, P. E.
- CHIN, P.: see Li, X.
- CHOI, S. N.: see Kang, J. G.
- CHOMIAK, J., HAKBERG, B., and OLSSON, E.
A Note on the Scalar Dissipation Rates in Turbulent Flows, 83: 412
- CHOU, M.-S., and ZUKOWSKI, T. J.
Ignition of $\text{H}_2/\text{O}_2/\text{NH}_3$, $\text{H}_2/\text{Air}/\text{NH}_3$ and

- $\text{CH}_4/\text{O}_2/\text{NH}_3$ Mixtures by Excimer-Laser Photolysis of NH_3 , 87: 191
- CHUNG, S. H., and LEE, B. J.
On the Characteristics of Laminar Lifted Flames in a Nonpremixed Jet, 86: 62
- CHUNG, S.-L., TSAI, M.-S., and LIN, H.-D.
Formation of Particles in $\text{H}_2\text{-O}_2$ Counterflow Diffusion Flame Doped with SiH_4 or SiCl_4 , 85: 134
- CINQUE, G.: see Di Blasi, C.
- CIRGAN, S.: see Sahetchian, K. A.
- CLARKE, A. G.: see Hampartsoumian, E.
- CLAY, R. S., and HUSAIN, D.
Absolute Rate Data for Reactions of Ground-State Atomic Calcium, $\text{Ca}(4s^2(^1S_0))$, at Elevated Temperatures Determined by Time Resolved Atomic Resonance Absorption Spectroscopy at $\lambda = 422.7 \text{ nm}$ ($4^1P_1 \leftarrow 4^1S_0$) 86: 371
- COLE, L. L.: see Fields, D. E.
- COLKET, M. B., III, SEERY, D. J., and PALMER, H. B.
On Impurity Effects in Acetylene Pyrolysis, 84: 434
- COLLINGS, N.: see Axford, S. D. T.
- COLUSSI, A. J.
Comment on "The Pyrolysis of Acetylene Initiated by Acetone" by Colket, Seery, and Palmer, 84: 432
- COOK, D. K.
A One-Dimensional Integral Model of Turbulent Jet Diffusion, 85: 143
- CORRE, C.: see Minetti, R.
- COSTA, M.: see Abbas, T.
- COSTEN, P.: see Abbas, T.
- CRENSHAW, M.: see Fields, D. E.
- CRESCITELLI, S.: see Di Blasi, C.
- CUNDY, V. A.: see Owens W. D.
- DAHLM, W. J. A.: see Tryggvason, G.
- DANCHAK, M.: see Best, P. E.
- DASCH, C. J., and HEFFELFINGER, D. M.
Planar Imaging of Soot Formation in Turbulent Ethylene Diffusion Flames: Fluctuations and Integral Scales, 85: 389
- DAVID, R. W., MOORE, E. F., ROQUEMORE, W. M., CHEN, L.-D., VILIMPOC, V., and GOSS, L. P.
Preliminary Results of a Numerical-Experimental Study of the Dynamic Structure of a Buoyant Jet Diffusion Flame, 83: 263
- DAVIDSON, J. F.: see Hesketh, R. P.
- DEC, J. E., KELLER, J. O., and HONGO, I.
Time-Resolved Velocities and Turbulence in the Oscillating Flow of a Pulse Combustor Tail Pipe, 83: 271
- DEGROOT, W. A.: see Waldherr, G. A.
- DELICHATSIOS, M. A., PANAGIOTOU, TH., and KILEY, F.
The Use of Time to Ignition Data for Characterizing the Thermal Inertia and the Minimum (Critical) Heat Flux for Ignition or Pyrolysis, 84: 323
- DENG, X. X.: see Owens W. D.
- DEVOLDER, P.: see Minetti, R.
- DIBBLE, R. W.: see Mansour, M. S.
- DIBBLE, R. W.: see Stårner, S. H.
- DI BLASI, C., CRESCITELLI, S., RUSSO, G., and CINQUE, G.
Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
- DINDI, H., TSAI, H.-M., and BRANCH, M. C.
Combustion Mechanism of Carbon Monoxide-Nitrous Oxide Flames, 87: 13
- DIXON-LEWIS, G.: see Bradley, D.
- DIXON-LEWIS, G., BRADLEY, D., and EL-DIN HABIK, S.
Oxidation Rates of Carbon Particles in Methane-Air Flames, 86: 12
- DOLD, J. W., and KAPILA, A. K.
Comparison Between Shock Initiations of Detonation Using Thermally-Sensitive and Chain-Branching Chemical Models, 85: 185
- DONNERHACK, S.: see Treviño, C.
- DRAKE, M. C., and BLINT, R. J.
Relative Importance of Nitric Oxide Formation Mechanisms in Laminar Opposed-Flow Diffusion Flames 83: 185
- DRAKE, M. C., and RATCLIFFE, J. W.
Use of a Gas-Surface Chemiluminescence Analyzer for NO and NO_2 Measurements in Combustion, 87: 152
- DRISCOLL, J. F.: see Feikema, D.
- DRISCOLL, J. F.: see Roberts, W. L.
- DRYER, F. L.: see Linteris, G. T.
- DRYER, F. L.: see Yetter R. A.
- DUNPHY, M. P., SIMMIE, J. M.
Combustion of Methyl *tert*-Butyl Ether. Part I: Ignition in Shock Waves, 85: 489
- DUTOV, M. D.: see Fogelzang, A. E.
- EDWARDS, D. H.: see Thomas, G. O.
- EGORSHEV, V. YU.: see Fogelzang, A. E.
- EL-DIN HABIK, S.: see Bradley, D.
- EL-DIN HABIK, S.: see Dixon-Lewis, G.
- ELKOTB, M. M., ALY, S. L., and ELSALMAWY, H. A.
Evaporation Characteristics of Fuel and Multi-fuel Droplets, 85: 300
- ELLZEY, J. L., LASKEY, K. J., and ORAN, E. S.
A Study of Confined Diffusion Flames, 84: 249
- ELSALMAWY, H. A.: see Elkotb, M. M.
- EL-SHERIF, S. A.: see Bradley, D.

- EL-SHERIF, S.: see Bradley, D.
- EL TAHRY, S. H., RUTLAND, C., and FERZIGER, J.
Structure and Propagation Speeds of Turbulent Premixed Flames—A Numerical Study 83: 155
- ERICKSON, M.: see Moore, C.
- ESSENHIGH, R. H.: see Shaw, D. W.
- FAETH, G. M.: see Köylü, Ü. Ö.
- FAIRWEATHER, M., JONES, W. P., LINDSTEDT, R. P., and MARQUIS, A. J.
Predictions of a Turbulent Reacting Jet in a Cross-Flow, 84: 361
- FEIKEMA, D., CHEN, R.-H., and DRISCOLL, J. F.
Blowout of Nonpremixed Flames: Maximum Coaxial Air Velocities Achievable, with and without Swirl 86: 347
- FERNANDEZ-PELLO, A. C.: see Zhang, X. L.
- FERZIGER, J.: see El-Tahry, S. H.
- FERZIGER, J. H.: see Rutland, C.
- FIELDS, D. E., COLE, L. L., CRENSHAW, M., YALCINTAS, M. G., and STREHLOW, R. A.
Graphite Formation in the Hiroshima Fire Storm, 83: 106
- FINESCHI, F.: see Carnasciali, F.
- FOGELZANG, A. E., EGORSHEV, V. YU., SINDITSKY, V. P., and DUTOV, M. D.
Combustion of Nitro Derivatives of Azidobenzenes and Benzofuroxans, 87: 123
- FOLTZ, M. F.: see Rice, S. F.
- FORCH, B. E., and MIZIOLEK, A. W.
Laser-Based Ignition of H_2/O_2 and D_2O_2 Premixed Gases Through Resonant Multiphoton Excitation of H and D Atoms Near 243 nm, 85: 254
- FRENDI, A.: see Chen, Y.
- FRENDI, A., and SIBULKIN, M.
Extinction of Methane-Oxygen Mixtures by Nitrogen Dilution, 86: 185
- FRENKLACH, M.: see Wang, H.
- FU, P.-Y.: see Lifshitz, A.
- FUJIOKA, H.: see Nakabe, K.
- FUJITANI, Y.: see Ishiguro, T. 85: 1
- GAO, A., OYUMI, Y., and BRILL, T. B.
Thermal Decomposition of Energetic Materials
49. Thermolysis Routes of Mono- and Diaminotetrazoles, 83: 345
- GARDINER, W. C. JR.: see Lifshitz, A.
- GARDNER, J. H.: see Kailasanath, K.
- GHONIEM, A. F., and HEIDARINEJAD, G.
Effect of Damkohler Number on the Reactive Zone Structure in a Shear Layer, 83: 1
- GORE, J.: see Hamins, A.
- GORE, J. P., and SKINNER, S. M.
Mixing Rules for State Relationships of Methane and Acetylene/Air Diffusion Flames, 87: 357
- GORELOV, G. N., and SOBOLEV, V. A.
Mathematical Modeling of Critical Phenomena in Thermal Explosion Theory, 87: 203
- GOSS, L. P.: see David, R. W.
- GÖTTGENS, J.: see Peters, N.
- GREEN, A. R.: see Apte, V. B.
- GRIFFITHS, J. F.: see Baulch, D. L.
- GRÖNIG H.: see Zhang, F.
- HA, M. Y., YAVUZKURT, S.
Combustion of a Single Carbon or Char Particle in the Presence of High-Intensity Acoustic Fields, 86: 33
- HAKBERG, B.: see Chomiak, J.
- HAMINS, A., KLASSEN, M., GORE, J., and KASHIWAGI, T.
Estimate of Flame Radiance via a Single Location Measurement in Liquid Pool Fires, 86: 223
- HAMPARTSOUMIAN, E., NIMMO, W., CLARKE, A. G., and WILLIAMS, A.
The Formation of NH_3 , HCN , and N_2O in an Air-Staged Fuel Oil Flame, 85: 499
- HANCOCK, R. D., HEDMAN, P. O., and KRAMER, S. K.
Coherent Anti-Stokes Raman Spectroscopy (CARS) Measurements in Coal-Seeded Flames, 87: 77
- HASEGAWA, S.: see Niioka, T.
- HAYHURST, A. N.
Does Carbon Monoxide Burn Inside a Fluidized Bed? A New Model for the Combustion of Coal Char Particles in Fluidized Beds, 85: 155
- HAYHURST, A. N.: see Axford, S. D. T.
- HAYHURST, A. N.: see Beck, N. C.
- HAYNES, B. S.: see Woods, I. T.
- HEDMAN, P. O.: see Hancock, R. D.
- HEFFELFINGER, D. M.: see Dasch, C. J.
- HEIDARINEJAD, G.: see Ghoniem, A. F.
- HERTZBERG, J. R., SHEPHERD, I. G., and TALBOT, L.
Vortex Shedding Behind Rod Stabilized Flames, 86: 1
- HERTZBERG, M., and ZLOCHOWER, I. A.
Devolatilization Wave Structures and Temperatures for the Pyrolysis of Polymethylmethacrylate, Ammonium Perchlorate, and Coal at Combustion Level Heat Fluxes, 84: 15
- HESKESTAD, G.
A Reduced-Scale Mass Fire Experiment, 83: 293
- HESKETH, R. P., and DAVIDSON, J. F.
Combustion of Methane and Propane in an Incipiently Fluidized Bed, 85: 449

- HIRANO, T.: see Tsuruda, T.
 HIRAO, T.: see Nakabe, K.
 HIRATA, K.: see Tachibana, T.
 HONGO, I.: see Dec, J. E.
 HOU, W.-H.: see Chen, C.-H.
 HOWARD, J. B.: see Shandross, R. A.
 HOWARD, J. B.: see Vaughn, C. B.
 HSHIEH, F.-Y., and RICHARDS, G. N.
 Infrared Investigation of the Oxygen Chemisorption of Wood Char, 84: 423
 HUPPA, M.: see Kilpinen, P.
 HUSAIN, D.: see Clay, R. S.
 HUSTAD, J. E., VAREIDE, D., and SONJU, O.
 Burning Rates of Coke Particles in the Freeboard Above a Fluidized Bed Reactor, 85: 232
 HUZAREWICZ, S.: see Zachariah, M. R.
 HWANG, S. M.: see Lifshitz, A.
 ILOVICI, I.: see Best, P. E.
 INAGAKI, I.: see Nishioka, M.
 INOMATA, T.: see Takahashi, K.
 ISHIGURO, T., SUZUKI, N., FUJITANI, Y., and MORIMOTO, H.
 Microstructural Changes of Diesel Soot During Oxidation, 85: 1
 ISHIHARA, A., BREWSTER, M. Q., SHERIDAN, T. A., and KRIER, H.
 The Influence of Radiative Heat Feedback on Burning Rate in Metallized Propellants, 84: 141
 ISHIZUKA, S.: see Nishioka, M.
 ISODA, H.: see Yuasa, S.
 ITO, A., MASUDA, D., and SAITO, K.
 A Study of Flame Spread Over Alcohols Using Holographic Interferometry, 83: 375
 IWAMA, A.: see Saito, T.
 JACKSON, T.: see Li, X.
 JAKWAY, A. L.: see Owens, W. D.
 JANSSEN, J. M., and SENSER, D. W.
 Incipient Soot Formation in Dichloromethane-Methane-Air Premixed Flames, 84: 265
 JONES, A. R.: see Card, J. B. A.
 JONES, J. C.
 Comment on "The Effect of Preheating of Wood on Ignition Temperature of Wood Char", by F.-Y. Hsieh and G. N. Richards, 85: 529
 JONES, S. A. S., and THOMAS, G. O.
 Pressure Hot-Wire and Laser Doppler Anemometer Studies of Flame Acceleration in Long Tubes, 87: 21
 JONES, W. P.: see Fairweather, M.
 JONES, W. P.: see Leung, K. M.
 JOULAIN, P.: see Annarumma, M. O.
 JOULAIN, P.: see Zhang, X. L.
 JOULIN, G.: see Buckmaster, J. D.
 KAILASANATH, K., GARDNER, J. H., ORAN, E. S., and BORIS, J. P.
 Numerical Simulations of Unsteady Reactive Flows in a Combustion Chamber, 86: 115
 KANG, J. G., LEE, S. W., YUN, S. S., CHOI, S. N., KIM, C. S.
 Ignition Delay Times of Nitromethane-Oxygen-Argon Mixtures Behind Reflected Shock, 85: 275
 KANG, S.-W., SAROFIM, A. F., and BEÉR, J. M.:
 Agglomerate Formation During Coal Combustion: A Mechanistic Model 86: 258
 KAPILA, A. K.: see Dold, J. W.
 KARAGOZIAN, A. R.: see Logan, P.
 KASHIWAGI, T.: see Hamins, A.
 KASSEM, M., and SENKAN, S. M.
 Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of 1,2-C₂H₄Cl₂ and CH₄, 83: 365
 KAUFMAN, M.: see Moore, C.
 KAVIANY, M.: see Tao, Y.-X.
 KELLER, J. O.: see Dec, J. E.
 KHASAINOV, B. A.: see Veyssiere, B.
 KILEY, F.: see Delichatsios, M. A.
 KILPINEN, P., and HUPPA, M.
 Homogeneous N₂O Chemistry at Fluidized Bed Combustion Conditions: A Kinetic Modeling Study, 85: 94
 KIM, C. S.: see Kang, J. G.
 KLASSEN, M.: see Hamins, A.
 KNYSTAUTAS, R.: see Carnasciali, F.
 KO, Y., ANDERSON, R. W., and ARPACI, V. S.
 Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part I: An Experimental Study, 83: 75
 Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part II: A Model Development, 83: 88
 KOLB, C. E.: see Yetter, R. A.
 KORDYLEWSKI, W.: see Amrogowicz, J.
 KOROLL, G. W., and KUMAR, R. K.
 Isotope Effects on the Combustion Properties of Deuterium and Hydrogen, 84: 154
 KORZHAVIN, A. A.: see Babkin, V. S.
 KÖYLÜ, Ü. Ö., and FAETH, G. M.:
 Carbon Monoxide and Soot Emissions from Liquid-Fueled Buoyant Turbulent Diffusion Flames, 87: 61
 KRAMER, S. K.: see Hancock, R. D.
 KRIER, H.: see Ishihara, A.
 KUBOTA, T.: see Zukoski, E. E.
 KUMAR, R. K.
 Erratum on "Detonation Cell Width in H₂-O₂-

- Dilutant Mixtures," by R. K. Kumar, CNF 80: 157-169 (1990)
- KUMAR, R. K.: see Koroll, G. W.
- KWA, L. K.: see Bradley, D.
- LANG, W.
Harmonic Frequency Generation by Oscillating Flames, 83: 253
- LANIER, W. S.: see Mulholland, J. A.
- LASKEY, K. J.: see Ellzey, J. L.
- LAW, C. K.: see Lee, A.
- LAWSON, L. O.: see Maloney, D. J.
- LECKNER, B.: see Åmand, L.-E.
- LEE, A., and LAW, C. K.
Gassification and Shell Characteristics in Slurry Droplet Burning, 85: 77
- LEE, B. J.: see Chung, S. H.
- LEE, J. H. S.: see Carnasciali, F.
- LEE, J. W.: see Logan, P.
- LEE, L. M.: see Logan, P.
- LEE, S. W.: see Kang, J. G.
- LEGER, C. B.: see Owens W. D.
- LESTER, T. W.: see Miller, G. P.
- LEUNG, K. M., LINDSTEDT, R. P., and JONES, W. P.
A Simplified Reaction Mechanism for Soot Formation in Nonpremixed Flames, 87: 289
- LEVENDIS, Y. A.: see Loewenberg, M.
- LI, X., CHIN, P., TANKIN, R. S., JACKSON T., and STUTRUD, J.
Comparison Between Experiments and Predictions Based on Maximum Entropy for Sprays from a Pressure Atomizer, 86: 73
- LIBBY, P. A.: see Blake, T. R.
- LIBBY, P. A.: see Bray, K. N. C.
- LIFSHITZ, A., BIDANI, M., CARROLL, H. F., HWANG, S. M., FU, P.-Y., SHIN, K. S., and GARDINER, W. C. JR.
Ignition of Monomethyl Amine 86: 229
- LIGHTY, J. S.: see Owens W. D.
- LIN, H.-D.: see Chung, S.-L.
- LIN, T. H., and SHEU, Y. Y.
Theory of Laminar Flame Propagation in Near-Stoichiometric Dilute Sprays, 84: 333
- LIN, T.-H.: see Liu, C.-C.
- LINDSTEDT, R. P.: see Catlin, C. A.
- LINDSTEDT, R. P.: see Fairweather, M.
- LINDSTEDT, R. P.: see Leung, K. M.
- LINTERIS, G. T., YETTER, R. A., BREZINSKY, K., DRYER, F. L.
Hydroxyl Radical Concentration Measurements in Moist Carbon Monoxide Oxidation in a Chemical Kinetic Flow Reactor, 86: 162
- LIU, C.-C., and LIN, T.-H.
The Interaction Between External and Internal Heat Losses on the Flame Extinction of Dilute Sprays, 85: 468
- LOCKWOOD, F.: see Abbas, T.
- LOEWENBERG, M., and LEVENDIS, Y. A.
Combustion Behavior and Kinetics of Synthetic and Coal-Derived Chars: Comparison of Theory and Experiment, 84: 47
- LOGAN, P., LEE, J. W., LEE, L. M., KARAGOZIAN, A. R., SMITH, O. I.
Acoustics of a Low-Speed Dump Combustor, 84: 93
- LONGWELL, J. P.: see Shandross, R. A.
- LONGWELL, J. P.: see Vaughn, C. B.
- LYU, H.-Y., and CHEN, L.-D.
Numerical Modeling of Buoyant Ethanol-Air Wick Diffusion Flames, 87: 169
- MAKHVILADZE, G. M., and ROGATYKH, D. I.
Nonuniformities in Initial Temperature and Concentration as a Cause of Explosive Chemical Reactions in Combustible Gases, 87: 347
- MALONEY, D. J., MONAZAM, E. R., WOODRUFF, S. D., and LAWSON, L. O.
Measurements and Analysis of Temperature Histories and Size Changes for Single Carbon and Coal Particles During the Early Stages of Heating and Devolatilization, 84: 210
- MANSOUR, M. S., BILGER, R. W., and DIBBLE, R. W.
Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction, 85: 215
- MARGOLIS, S. B., and WILLIAMS, F. A.
Flame Propagation in Solids and High-Density Fluids With Arrhenius Reactant Diffusion, 83: 390
- MARQUIS, A. J.: see Fairweather, M.
- MASUDA, D.: see Ito, A.
- MATALON, M.: see Tien, J. H.
- MATHUR, M. P.: see Phuoc, T. X.
- MAWID, M., and AGGARWAL, S. K.
Analysis of Transient Combustion of a Multi-component Liquid Fuel Droplet, 84: 197
- McINTOSH, A. C., and PROTHERO, A.
A Model of Large Heat Transfer Surface Combustion with Radiant Heat Emission, 83: 111
- McMURTRY, P. A.: see Chen, C.
- McMURTRY, P. A.: see Son, S. F.
- MENEVEAU, C., and POINSOT, T.
Stretching and Quenching of Flamelets in Premixed Turbulent Combustion 86: 311
- MILLER, G. P., LESTER, T. W., and CHENG, M. T.
Nitric Oxide Reduction in the Postflame Region of Pulverized Coal Flames, 85: 440
- MILLER, P. J., BLOCK, S., and PIERMARINI, G.
Effects of Pressure on the Thermal Decomposi-

- tion Kinetics, Chemical Reactivity and Phase Behavior of RDX, 83: 174
- MINETTI, R., CORRE, C., PAUWELS, J.-F., DEVOLDER, P., SOCHET, L.-R.
On the Reactivity of Hydroperoxy Radicals and Hydrogen Peroxide in a Two-Stage Butane-Air Flame, 85: 263
- MITCHELL, J. B. A.
Smoke Reduction from Burning Crude Oil Using Ferrocene and Its Derivatives, 86: 179
- MIYAKE, T.: see Takahashi, K.
- MIZIOLEK, A. W.: see Forch, B. E.
- MIZUTANI, Y.: see Nakabe, K.
- MONAZAM, E. R.: see Maloney, D. J.
- MOORE, C., ERICKSON, M., and KAUFMAN, M.
Luminescence from Hydrogen-Fluorine Flames, Dilute in Methane, 87: 136
- MOORE, E. F.: see David, R. W.
- MORBIDELLI, M.: see Rota, R.
- MOREHART, J. H.: see Zukoski, E. E.
- MORIMOTO, H.: see Ishiguro, T.
- MORIWAKI, T.: see Takahashi, K.
- MOST, J. M.: see Annarumma, M. O.
- MULHOLLAND, J. A., SRIVASTAVA, R. K., WENDT, J. O. L., AGRAWAL, S. R., and LANIER, W. S.
Trajectory and Incineration of Rogue Droplets in a Turbulent Diffusion Flame 86: 297
- MURATA, H.: see Saito, M.
- MYHR, F. H.: see Turns, S. R.
- NACKEN, A., and ADOMEIT, G.
Release of Carbon Particles by the Oxidation of a Graphite Surface in Cross Flow. Part I: Experimental Investigation, 87: 33
- NAKABE, K., MIZUTANI, Y., HIRAO, T., and FUJIOKA, H.
An Experimental Study on Detailed Flame Structure of Liquid Fuel Sprays With and Without Gaseous Fuel, 84: 3
- NIIOKA, T., HASEGAWA, S., TSUKAMOTO, T., and SATO, J.
Diffusion-Flame Extinction of Liquid Fuel at Elevated Pressures, 86: 171
- NIMMO, W.: see Hampartsoumian, E.
- NISHIDA, H.: see Tachibana, T.
- NISHIOKA, M., INAGAKI, I., ISHIZUKA, S., and TAKENO, T.
Effects of Pressure on Structure and Extinction of Tubular Flame 86: 90
- NORRIS, T. A., and POPE, S. B.
Turbulent Mixing Model Based on Ordered Pairing, 83: 27
- OAKLEY, G.: see Thomas, G. O.
- OHNO, Y.: see Saito, M.
- OKAZAKI, S.: see Takahashi, K.
- OLSSON, E.: see Chomiak, J.
- ORAN, E. S.: see Ellzey, J. L.
- ORAN, E. S.: see Kailasanath, K.
- OSADA, H.: see Tachibana, T.
- OWENS, W. D., SILCOX, G. D., LIGHTY, J. S., DENG, X. X., PERSHING, D. W., CUNDY, V. A., LEGER, C. B., and JAKWAY, A. L.
Thermal Analysis of Rotary Kiln Incineration: Comparison of Theory and Experiment, 86: 101
- OYUMI, Y.: see Gao, A.
- PALMER, H. B.: see Colket, M. B., III
- PALOPOLI, S. F., and BRILL, T. B.
Thermal Decomposition of Energetic Materials 52. On the Foam Zone and Surface Chemistry of Rapidly Decomposing HMX, 87: 45
- PANAGIOTOU, TH.: see Delichatsios, M. A.
- PATIL, D. G., and BRILL, T. B.
Thermal Decomposition of Energetic Materials 53. Kinetics and Mechanism of Thermolysis of Hexanitrohexaazaisowurtzitane, 87: 145
- PAUWELS, J.-F.: see Minetti, R.
- PERSHING, D. W.: see Owens, W. D.
- PETERS, N., and GÖTTGENS, J.
Scaling of Buoyant Turbulent Jet Diffusion Flames, 85: 206
- PETERS, N.: see Treviño, C.
- PHUOC, T. X., and MATHUR, M. P.
Transient Heating of Coal Particles Undergoing Pyrolysis, 85: 380
- PHYLAKTOU, H., and ANDREWS, G. E.
The Acceleration of Flame Propagation in a Tube by an Obstacle, 85: 363
- PIERMARINI, G.: see Miller, P. J.
- PITZ, W. J.: see Tieszen, S. R.
- POINSOT, T.: see Meneveau, C.
- POPE, S. B.: see Norris, T. A.
- PROTHERO, A.: see McIntosh, A. C.
- QUIEROZ, M.: see Bonin, M. P.
- QUIEROZ, M.: see Son, S. F.
- QUINTIERE, J. G.: see Apte, V. B.
- RABITZ, H.: see Yetter, R. A.
- RAO, V. K.: see Bardon, M. F.
- RATCLIFFE, J. W.: see Drake, M. C.
- RICE, S. F., and FOLTZ, M. F.
Very High Pressure Combustion: Reaction Propagation Rates of Nitromethane within a Diamond Anvil Cell, 87: 109
- RICHARDS, G. N.: see Hsieh, F.-Y.
- RICHTER, R.: see Baulch, D. L.
- RIGNY, R.: see Sahetchian, K. A.
- RILEY, J. J.: see Chen, C.
- ROBERTS, W. L. and DRISCOLL, J. F.
A Laminar Vortex Interacting with a Premixed

- Flame: Measured Formation of Pockets of Reactants, 87: 245
- ROGATYKH, D. I.: see Makhviladze, G. M.
- RONNEY, P. D.: see Buckmaster, J. D.
- ROQUEMORE, W. M.: see David, R. W.
- ROTA, R., CANU, P., CARRA, S., and MORBIDELLI, M.
- Vented Gas Deflagration Modeling: A Simplified Approach, 85: 319
- RUSSO, G.: see Di Blasi, C.
- RUTLAND, C., and FERZIGER, J. H.
- Simulations of Flame-Vortex Interactions, 84: 343
- RUTLAND, C.: see El-Tahry, S. H.
- SAATDJIAN, E.: see Caminat, P.
- SADAKATA, M.: see Saito, M.
- SADEQI, M. E.: see Branch, M. C.
- SAHETCHIAN, K. A., RIGNY, R., and CIRGAN, S.
- Identification of the Hydroperoxide Formed by Isomerization Reactions During the Oxidation of *n*-Heptane in a Reactor and CFR engine, 85: 511
- SAITO, K.: see Ito, A.
- SAITO, K.: see Soma, S.
- SAITO, M., SADAKATA, M., SATO, M., SOUTOME, T., MURATA, H., and OHNO, Y.
- Combustion Rates of Pulverized Coal Particles in High-Temperature/High-Oxygen Concentration Atmosphere, 87: 1
- SAITO, T., SHIMODA, M., YAMAYA, T., and IWAMA, A.
- Ignition of AP-Based Composite Solid Propellants Containing Nitramines Exposed to CO₂ Laser Radiation at Subatmospheric Pressures, 85: 68
- SANTIAGO, F.: see Sharma, J.
- SAROFIM, A. F.: see Kang, S.-W.
- SATO, J.: see Niioka, T.
- SATO, K., and SEGA, S.
- Mode of Burning Zone Spread in an Opposed Gas Flow, 83: 146
- SATO, M.: see Saito, M.
- SCHMIDT, L. D.: see Song, X.
- SCHMIDT, L. D.: see Williams, W. R.
- SEDER, T. A., and BENARD, D. J.
- The Decomposition of Condensed Phase Fluorine Azide, 85: 353
- SEERY, D. J.: see Colket, M. B., III
- SEGA, S.: see Sato, K.
- SELAMET, A.: see Arpaci, V. S.
- SENKAN, S. M.: see Kassem, M.
- SENER, D. W.: see Janssen, J. M.
- SHANDROSS, R. A., LONGWELL, J. P., and HOWARD, J. B.
- Noncatalytic Thermocouple Coating for Low-Pressure Flames, 85: 282
- SHARMA, J., WILMOT, G. B., CAMPOLATTARO, A. A., and SANTIAGO, F.
- XPS Study of Condensed Phase Combustion in Double-Base Rocket Propellant With and Without Lead Salt-Burning Rate Modifier, 85: 416
- SHAW, D. W., and ESSENHIGH, R. H.
- Temperature Fluctuations in Pulverized Coal (P.C.) Flames 86: 333
- SHEPHERD, I. G.: see Cheng, R. K.
- SHEPHERD, I. G.: see Hertzberg, J. R.
- SHERIDAN, T. A.: see Ishihara, A.
- SHEU, W. J., and SIVASHINSKY, G. I.
- Nonplanar Flame Configurations in Stagnation Point Flow, 84: 221
- SHEU, Y. Y.: see Lin, T. H.
- SHIMODA, M.: see Saito, T.
- SHIN, K. S.: see Lifshitz, A.
- SIBULKIN, M.: see Chen, Y.
- SIBULKIN, M.: see Frendi, A.
- SILCOX, G. D.: see Owens W. D.
- SIMMIE, J. M.: see Dunphy, M. P.
- SINDITSKY, V. P.: see Fogelzang, A. E.
- SIVASEGARAM, S., and WHITELAW, J. H.
- The Influence of Swirl on Oscillations in Ducted Premixed Flames, 85: 195
- SIVASHINSKY, G. I.: see Sheu, W. J.
- SKINNER, S. M.: see Gore, J. P.
- SMITH, O. I.: see Logan, P.
- SOBOLEV, V. A.: see Gorelov, G. N.
- SOCHET, L.-R.: see Minetti, R.
- SOHRAB, S. H.: see Chen, C. L.
- SOLOMON, P. R.: see Best, P. E.
- SOLORIO, F.: see Treviño, C.
- SOMA, S., and SAITO, K.
- Reconstruction of Fire Whirls Using Scale Models 86: 269
- SON, S. F., MCMURTRY, P. A., and QUIEROZ, M.
- The Effect of Heat Release on Various Statistical Properties of a Reacting Sheer Layer, 85: 51
- SONG, X.: see Williams, W. R.
- SONG, X., WILLIAMS, W. R., SCHMIDT, L. D., and ARIS, R.
- Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: II. Computations for Stagnation-Point Flow, 84: 292
- SONJU, O.: see Hustad, J. E.
- SOUTOME, T.: see Saito, M.
- SRIVASTAVA, R. K.: see Mulholland, J. A.
- STAHL, G., and WARNATZ, J.
- Numerical Investigation of Time-Dependent Properties and Extinction of Strained Methane- and Propane-Air Flamelets, 85: 285

- STAMPS, D. W., and TIESZEN, S. R.
The Influence of Initial Pressure and Temperature on Hydrogen-Air-Diluent Detonations, 83: 353
- STAMPS, D. W.: see Tieszen, S. R.
- STANMORE, B. R.
Modeling the Combustion Behavior of Petroleum Coke, 83: 221
- STÄRNER, S. H., BILGER, R. W., DIBBLE, R. W., and BARLOW, R. S.
Piloted Diffusion Flames of $\text{CO}/\text{CH}_4/\text{N}_2$ and $\text{CO}/\text{H}_2/\text{N}_2$ Near Extinction, 83: 63
- STENZEL, M. T.: see Williams, W. R.
- STERLING, A. M.: see Tsai, J. S.
- STONER, C. E., JR., and BRILL, T. B.
Thermal Decomposition of Energetic Materials
46. The Formation of Melamine-like Cyclic Azines as a Mechanism for Ballistic Modification of Composite Propellants by DCD, DAG, and DAF, 83: 302
- STRAHLE, W.: see Waldherr, G. A.
- STREHLOW, R. A.: see Fields, D. E.
- STUTRUD, J.: see Li, X.
- SUN, W. H.: see Vaughn, C. B.
- SUTTON, P.: see Thomas, G. O.
- SUZUKI, N.: see Ishiguro, T.
- TACHIBANA, T., HIRATA, K., NISHIDA, H., and OSADA, H.
Effect of Ozone on Combustion of Compression Ignition Engines, 85: 515
- TAKAHASHI, K., MIYAKE, T., INOMATA, T., MORIWAKI, T., and OKAZAKI, S.
Influence of Obstacles on Flame Propagation and Gas Movement Ahead of Flame in an Open Space—Effect of Nets Laid on Floor, 84: 110
- TAKENO, T.: see Nishioka, M.
- TALBOT, L.: see Hertzberg, J. R.
- TANKIN, R. S.: see Li, X.
- TAO, Y.-X., and KAVIANY, M.
Burning Rate of Liquid Supplied Through a Wick, 86: 47
- TESNER, P. A.
Growth Rate of Soot Particles, 85: 279
- TESNER, P. A.
Why Does Soot Inception Stop?, 86: 187
- TEWARI, S. S.: see Chen, Y.
- THOMAS, G. O.: see Jones, S. A. S.
- THOMAS, G. O., OAKLEY, G., and BRENTON, J.
Influence of the Morphology of Lycopodium Dust on Its Minimum Ignition Energy, 85: 526
- THOMAS, G. O., SUTTON, P., and EDWARDS, D. H.
The Behavior of Detonation Waves at Concentration Gradients, 84: 312
- TIEN, J. H., and MATALON, M.
On the Burning Velocity of Stretched Flames, 84: 238
- TIESZEN, S. R.: see Stamps, D. W.
- TIESZEN, S. R., STAMPS, D. W., WESTBROOK, C. K., and PITZ, W. J.
Gaseous Hydrocarbon-Air Detonations, 84: 376
- TONER, S. J.: see Zukoski, E. E.
- TORRENT, J. G., CANTALAPIEDRA FUCHS, J., and BORRAJO, J. L.
On the Combustion Mechanism of Coal Dust in the Presence of Firedamp, 87: 371
- TREVINÑO, C., DONNERHACK, S., and PETERS, N.
LDA Measurements in the Premixed V Flame Stabilized in the Wake of a Flat Plate Boundary Layer, 85: 505
- TREVINÑO, C., SOLORIO, F.
Asymptotic Analysis of the High-Temperature Ignition of $\text{CO}/\text{H}_2/\text{O}_2$ Mixtures 86: 285
- TRYGGVASON, G., and DAHM, W. J. A.
An Integral Method for Mixing, Chemical Reactions, and Extinction in Unsteady Strained Diffusion Layers, 83: 207
- TSAI, H.-M.: see Dindi, H.
- TSAI, J. S., and STERLING, A. M.
The Combustion of a Linear Droplet Array in a Convective, Coaxial Potential Flow 86: 189
- TSAI, M.-S.: see Chung, S.-L.
- TSUJI, S.: see Yamaoka, I.
- TSUKAMOTO, T.: see Niioka, T.
- TSURUDA, T., and HIRANO, T.
Local Flame Front Disturbance Development Under Acceleration, 84: 66
- URNS, S. R., and MYHR, F. H.
Oxides of Nitrogen Emissions from Turbulent Jet Flames: Part I—Fuel Effects and Flame Radiation, 87: 319
- VAN TIGGELEN, P. J.: see Branch, M. C.
- VANDERHOFF, J. A.
Species Profiles in Solid Propellant Flames Using Absorption and Emission Spectroscopy, 84: 73
- VANTELON, J. P.: see Zhang, X. L.
- VAREIDE, D.: see Hustad, J. E.
- VAUGHN, C. B., HOWARD, J. B., and LONGWELL, J. P.
Benzene Destruction in Fuel-Rich Jet-Stirred Reactor-Combustion, 278
- VAUGHN, C. B., SUN, W. H., HOWARD, J. B., and LONGWELL, J. P.
Measurements and Modeling of Light Hydrocarbons in Rich C_2H_4 Combustion in a Jet-Stirred Reactor, 84: 38

- VEYSSIERE, B., and KHASAINOV, B. A.
A Model for Steady, Plane, Double-Front Detonations (DFD) in Gaseous Explosive Mixtures with Aluminum Particles in Suspension, 85: 241
- VILIMPOC, V.: see David, R. W.
- WALDHERR, G. A., DEGROOT, W. A., and STRAHLE, W. C.
Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17
- WANG, H., and FRENKLACH, M.
Detailed Reduction of Reaction Mechanisms for Flame Modeling, 87: 365
- WANG, Y.-Z.: see Celik, I.
- WARNATZ, J.: see Stahl, G.
- WENDT, J. O. L.: see Mulholland, J. A.
- WESTBROOK, C. K.: see Tieszen, S. R.
- WHITELAW, J. H.: see Sivasegaram, S.
- WICHMAN, I. S.
On the Use of Operator-Splitting Methods for the Equations of Combustion, 83: 240
- WICHMAN, I. S., and AGRAWAL, S.
Wind-Aided Flame Spread Over Thick Solids, 83: 127
- WILLIAMS, A.: see Hampartsoumian, E.
- WILLIAMS, F. A.: see Margolis, S. B.
- WILLIAMS, W. R., STENZEL, M. T., SONG, X., and SCHMIDT, L. D.
Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: I. Experimental Results Over Platinum, 84: 277
- WILLIAMS, W. R.: see Song, X.
- WILMOT, G. B.: see Sharma, J.
- WOODRUFF, S. D.: see Maloney, D. J.
- WOODS, I. T., and HAYNES, B. S.
Soot Surface Growth at Active Sites, 85: 523
- YALCINTAS, M. G.: see Fields, D. E.
- YAMAOKA, I., and TSUJI, S.
The Effect of Back Diffusion of Intermediate Hydrogen on Methane-Air and Propane-Air Flames Diluted with Nitrogen in a Stagnation Flow, 86: 135
- YAMAYA, T.: see Saito, T.
- YAVUZKURT, S.: see Ha, M. Y.
- YETTER, R. A., RABITZ, H., DRYER, F. L., BROWN, R. C., and KOLB, C. E.
Kinetics of High-Temperature B/O/H/C Chemistry, 83: 43
- YETTER, R. A.: see Linteris, G. T.
- YUASA, S., and ISODA, H.
Ignition and Combustion of Small Boron Lumps in an Oxygen Stream, 86: 216
- YUN, S. S.: see Kang, J. G.
- ZABARNICK, S.
Laser-Induced Fluorescence Diagnostics and Chemical Kinetic Modeling of a $\text{CH}_4/\text{NP}_2/\text{O}_2$ Flame at 55 Torr, 85: 27
- ZACHARIAH, M. R., and HUZAREWICZ, S.
Flame Synthesis of High T_c Superconductors, 87: 100
- ZHANG, F., and GRÖNIG, H.
Transition to Detonation in Corn Starch Dust-Oxygen and-Air Mixtures, 86: 21
- ZHANG, X. L., VANTELON, J. P., JOULAIN, P., and FERNANDEZ-PELLO, A. C.
Influence of an External Radiant Flux on a 15 cm Diameter Kerosene Pool Fire 86: 237
- ZLOCHOWER, I. A.: see Hertzberg, M.
- ZUKOSKI, E. E., MOREHART, J. H., KUBOTA, T., and TONER, S. J.
Species Production and Heat Release Rates in Two-Layered Natural Gas Fires, 83: 325
- ZUKOWSKI, T. J.: see Chou, M. S.

SUBJECT INDEX

Volumes 83, 84, 85, 86, and 87, 1991

1. ASYMPTOTIC ANALYSES

- A Model of Large Heat Transfer Surface Combustion with Radiant Heat Emission, 83: 111
- On the Use of Operator-Splitting Methods for the Equations of Combustion, 83: 240
- Flame Propagation in Solids and High-Density Fluids With Arrhenius Reactant Diffusion, 83: 390
- On the Burning Velocity of Stretched Flames, 84: 238
- The Structure and Stability of Nonadiabatic Flame Balls: II. Effects of Far-Field Losses, 84: 411
- The Interaction Between External and Internal Heat Losses on the Flame Extinction of Dilute Sprays, 85: 468
- Asymptotic Analysis of the High-Temperature Ignition of CO/H₂/O₂ Mixtures, 86: 285
- Mathematical Modeling of Critical Phenomena in Thermal Explosion Theory, 87: 203

2. COMBUSTION IN PRACTICAL SYSTEMS

- Time-Resolved Velocities and Turbulence in the Oscillating Flow of a Pulse Combustor Tail Pipe, 83: 271
- Influence of Fuel on the Emission of Nitrogen Oxides (NO and N₂) From an 8-MW Fluidized Bed Boiler, 84: 181
- Microstructural Changes of Diesel Soot During Oxidation, 85: 1
- Local Particle Velocity, Size and Concentration Measurements in an Industrial-Scale Pulverized Coal-Fired Boiler, 85: 121
- The Influence of Swirl on Oscillations in Ducted Premixed Flames, 85: 195
- Burning Rates of Coke Particles in the Freeboard Above a Fluidized Bed Reactor, 85: 232
- Further Insights Into SI Four-Stroke Combustion Using Flame Imaging, 85: 331
- Combustion of Methane and Propane in an Incipiently Fluidized Bed, 85: 449
- The Formation of NH₃, HCN, and N₂O in an Air-Staged Fuel Oil Flame, 85: 499
- Identification of the Hydroperoxide Formed by Isomerization Reactions During the Oxidation of *n*-Heptane in a Reactor and CFR

Engine, 85: 511

- Effect of Ozone on Combustion of Compression Ignition Engines, 85: 515
- Thermal Analysis of Rotary Kiln Incineration: Comparison of Theory and Experiment, 86: 101
- Smoke Reduction from Burning Crude Oil Using Ferrocene and Its Derivatives, 86: 179
- A Simplified Reaction Mechanism for Soot Formation in Nonpremixed Flames, 87: 289

3. COMBUSTION STABILITY/INSTABILITY

- Harmonic Frequency Generation by Oscillating Flames, 83: 253
- Diffusion Flame Stabilization and Extinction Under Naturally Convective Flows, 83: 309
- Acoustics of a Low-Speed Dump Combustor, 84: 93
- The Influence of Swirl on Oscillations in Ducted Premixed Flames, 85: 195
- Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction, 85: 215
- The Interaction Between External and Internal Heat Losses on the Flame Extinction of Dilute Sprays, 85: 468
- LDA Measurements in the Premixed V Flame Stabilized in the Wake of a Flat Plate Boundary Layer, 85: 505
- Pressure Hot-Wire and Laser Doppler Anemometer Studies of Flame Acceleration in Long Tubes, 87: 21

4. COMBUSTION SYSTEMS: ANALYTIC AND NUMERICAL DESCRIPTIONS

- Effect of Damkohler Number on the Reactive Zone Structure in a Shear Layer, 83: 1
- Kinetics of High-Temperature B/O/H/C Chemistry, 83: 43
- A Model of Large Heat Transfer Surface Combustion with Radiant Heat Emission, 83: 111
- Wind-Aided Flame Spread Over Thick Solids, 83: 127
- Structure and Propagation Speeds of Turbulent Premixed Flames—A Numerical Study, 83: 155

- On the Use of Operator-Splitting Methods for the Equations of Combustion, 83: 240
- Preliminary Results of a Numerical-Experimental Study of the Dynamic Structure of a Buoyant Jet Diffusion Flames, 83: 263
- Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
- A Note on the Scalar Dissipation Rates in Turbulent Flows, 83: 412
- A Study of Confined Diffusion Flames, 84: 249
- Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: I. Experimental Results Over Platinum, 84: 277
- Theory of Laminar Flame Propagation in Near-Stoichiometric Dilute Sprays, 84: 333
- Simulations of Flame-Vortex Interaction, 84: 343
- The Effect of Heat Release on Various Statistical Properties of a Reacting Sheer Layer, 85: 51
- A Model for Steady, Plane, Double-Front Detonations (DFD) in Gaseous Explosive Mixtures with Aluminum Particles in Suspension, 85: 241
- Comment on "The Effect of Preheating of Wood on Ignition Temperature of Wood Char," by F.-Y. Hsieh and G.N. Richards, 85: 529
- Effects of Pressure on Structure and Extinction of Tubular Flame, 86: 90
- Stretching and Quenching of Flamelets in Premixed Turbulent Combustion, 86: 311
- Simultaneous Effects of Fuel/Oxidizer Concentrations on the Extinction of Counterflow Diffusion Flames, 86: 383
- A Generalization of Laminar Burning Velocities and Volumetric Heat Release Rates, 87: 336
- 5. COMBUSTION SYSTEMS: MODELING AND SCALING**
- Turbulent Mixing Model Based on Ordered Pairing, 83: 27
- Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part II. A Model Development, 83: 88
- An Integral Method for Mixing, Chemical Reactions, and Extinction in Unsteady Strained Diffusion Layers, 83: 207
- The Influence of Initial Pressure and Temperature on Hydrogen-Air-Diluent Detonations, 83: 353
- Measurements and Modeling of Light Hydrocarbons in Rich C_2H_4 Combustion in a Jet-Stirred Reactor, 84: 38
- Combustion Behavior and Kinetics of Synthetic and Coal-Derived Chars: Comparison of Theory and Experiment, 84: 47
- Analysis of Transient Combustion of a Multicomponent Liquid Fuel Droplet, 84: 197
- Gaseous Hydrocarbon-Air Detonations, 84: 376
- Premixed Flames in Stagnating Turbulence: Part I. The General Formulation for Counterflowing Streams and Gradient Models for Turbulent Transport, 84: 391
- Comment On "The Pyrolysis of Acetylene Initiated by Acetone" by Colket, Seery and Palmer, 84: 432
- On Impurity Effects in Acetylene Pyrolysis, 84: 434
- Gassification and Shell Characteristics in Slurry Droplet Burning, 85: 77
- Vented Gas Deflagration Modeling: A Simplified Approach, 85: 319
- Transient Heating of Coal Particles Undergoing Pyrolysis, 85: 380
- Nitric Oxide Reduction in the Postflame Region of Pulverized Coal Flames, 85: 440
- Combustion of Methane and Propane in an Incipiently Fluidized Bed, 85: 449
- Comparison Between Experiments and Predictions Based on Maximum Entropy for Sprays from a Pressure Atomizer, 86: 73
- Thermal Analysis of Rotary Kiln Incineration: Comparison of Theory and Experiment, 86: 101
- Diffusion-Flame Extinction of Liquid Fuel at Elevated Pressures, 86: 171
- Buoyancy-Driven Turbulent Diffusion Flames, 86: 203
- Ignition and Combustion of Small Boron Lumps in an Oxygen Stream, 86: 216
- Reconstruction of Fire Whirls Using Scale Models, 86: 269
- A Study of Favre Averaging in Turbulent Flows with Chemical Reaction, 87: 257
- Mixing Rules for State Relationships of Methane and Acetylene/Air Diffusion Flames, 87: 357
- 6. COMBUSTION SYSTEMS: NEW**
- Propagation of Premixed Gaseous Explosion Flames in a Porous Media, 87: 182
- 7. DETONATIONS: CONDENSED PHASE AND HETEROGENEOUS**
- A Model for Steady, Plane, Double-Front Deto-

nations (DFD) in Gaseous Explosive Mixtures with Aluminum Particles in Suspension, 85: 241

Transition to Detonation in Corn Starch Dust-Oxygen and-Air Mixtures, 86: 21

8. DETONATIONS: GAS PHASE

The Influence of Initial Pressure and Temperature on Hydrogen-Air-Diluent Detonations, 83: 353

Influence of Obstacles on Flame Propagation and Gas Movement Ahead of Flame in an Open Space—Effects of Nets Laid on Floor, 84: 110

Isotope Effects on the Combustion Properties of Deuterium and Hydrogen, 84: 154

Turbulent Jet Initiation of Detonation, 84: 170

The Behavior of Detonation Waves at Concentration Gradients, 84: 312

Gaseous Hydrocarbon-Air Detonations, 84: 376

Comparison Between Shock Initiations of Detonation Using Thermally-Sensitive and Chain-Branching Chemical Models, 85: 185

Erratum on "Detonation Cell Width, in H_2 - O_2 -Dilutant Mixtures," by R. K. Kumar, CNF 80: 157-169 (1990), 85: 532

Nonuniformities in Initial Temperature and Concentration as a Cause of Explosive Chemical Reactions in Combustible Gases, 87: 347

9. DIAGNOSTICS: LASER

Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17

Piloted Diffusion Flames of $CO/CH_4/N_2$ and $CO/H_2/N_2$ Near Extinction, 83: 63

Measurements of the Structure of Laminar, Premixed Flames of $CH_4/NO_2/O_2$ and $CH_2O/NO_2/O_2$ Mixtures, 83: 228

A Study of Flame Spread Over Alcohols Using Holographic Interferometry, 83: 375

Laser-Induced Fluorescence Diagnostics and Chemical Modeling of a $CH_4/NO_2/O_2$ Flame at 55 Torr, 85: 27

Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction, 85: 215

LDA Measurements in the Premixed V Flame Stabilized in the Wake of a Flat Plate Boundary Layer, 85: 505

A Light Scattering Method to Discriminate between Coal and Fly Ash Particles Dispersed in Air, 86: 394

Pressure Hot-Wire and Laser Doppler Anemometer Studies of Flame Acceleration in Long Tubes, 87: 21

Coherent Anti-Stokes Raman Spectroscopy (CARS) Measurements in Coal-Seeded Flames, 87: 77

10. DIAGNOSTICS: OPTICAL AND PHOTOGRAPHIC

Piloted Diffusion Flames of $CO/CH_4/N_2$ and $CO/H_2/N_2$ Near Extinction, 83: 63

Species Profiles in Solid Propellant Flames Using Absorption and Emission Spectroscopy, 84: 73

Infrared Investigation of the Oxygen Chemisorption of Wood Char, 84: 423

Local Particle Velocity, Size and Concentration Measurements in an Industrial-Scale Pulverized Coal-Fired Boiler, 85: 121

Tomographic Reconstruction of FT-IR Emission and Transmission Spectra in a Sooting Laminar Diffusion Flame: Species Concentrations and Temperatures, 85: 309

Further Insights Into SI Four-Stroke Combustion Using Flame Imaging, 85: 331

11. DIAGNOSTICS: OTHER

Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17

Graphite Formation in the Hiroshima Fire Storm, 83: 106

Combustion Rates of Pulverized Coal Particles in High-Effects of Pressure on the Thermal Decomposition Kinetics, Chemical Reactivity and Phase Behavior of RDX, 83: 174

Measurements and Modeling of Light Hydrocarbons in Rich C_2H_4 Combustion in a Jet-Stirred Reactor, 84: 38

Measurements and Analysis of Temperature Histories and Size Changes for Single Carbon and Coal Particles During the Early Stages of Heating and Devolatilization, 84: 210

Noncatalytic Thermocouple Coating for Low-Pressure Flames, 85: 282

Use of a Gas-Surface Chemiluminescence Analyzer for NO and NO_2 Measurements in Combustion, 87: 152

12. EXPERIMENTAL TECHNIQUES OR RESULTS: BURNERS

Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17

- Piloted Diffusion Flames of $\text{CO}/\text{CH}_4/\text{N}_2$ and $\text{CO}/\text{H}_2/\text{N}_2$ Near Extinction, 83: 63
- Mode of Burning Zone Spread in an Opposed Gas Flow, 83: 146
- Relative Importance of Nitric Oxide Formation Mechanisms in Laminar Opposed-Flow Diffusion Flames, 83: 185
- Measurements of the Structure of Laminar, Premixed Flames of $\text{CH}_4/\text{NO}_2/\text{O}_2$ and $\text{CH}_2\text{O}/\text{NO}_2/\text{O}_2$ Mixtures, 83: 228
- Harmonic Frequency Generation by Oscillating Flames, 83: 253
- Time-Resolved Velocities and Turbulence in the Oscillating Flow of a Pulse Combustor Tail Pipe, 83: 271
- A Reduced-Scale Mass Fire Experiment, 83: 293
- Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of $1,2\text{-C}_2\text{H}_4\text{Cl}_2$ and CH_4 , 83: 365
- An Experimental Study on Detailed Flame Structure of Liquid Fuel Sprays With and Without Gaseous Fuel, 84: 3
- Incipient Soot Formation in Dichloromethane-Methane-Air Premixed Flames, 84: 265
- The Influence of Burner Geometry on Premixed Turbulent Flame Propagation, 85: 12
- Laminar Flame Structure and Burning Velocities of Premixed Methanol-Air, 85: 105
- Formation of Particles in $\text{H}_2\text{-O}_2$ Counterflow Diffusion Flame Doped with SiH_4 or SiCl_4 , 85: 134
- The Influence of Swirl on Oscillations in Ducted Premixed Flames, 85: 195
- On the Reactivity of Hydroperoxy Radicals and Hydrogen Peroxide in a Two-Stage Butane-Air Flame, 85: 263
- Combustion of Methane and Propane in an Incipiently Fluidized Bed, 85: 449
- The Formation of NH_3 , HCN , and N_2O in an Air-Staged Fuel Oil Flame, 85: 499
- On the Characteristics of Laminar Lifted Flames in a Nonpremixed Jet, 86: 62
- Simultaneous Effects of Fuel/Oxidizer Concentrations on the Extinction of Counterflow Diffusion Flames, 86: 383
- Combustion Mechanism of Carbon Monoxide-Nitrous Oxide Flames, 87: 13
- Coherent Anti-Stokes Raman Spectroscopy (CARS) Measurements in Coal-Seeded Flames, 87: 77
- Agglomerate Parameters and Fractal Dimension of Soot Using Light Scattering-Effects on Surface Growth, 87: 89
- Luminescence from Hydrogen-Fluorine Flames, Dilute in Methane, 87: 136
- Propagation of Premixed Gaseous Explosion Flames in a Porous Media, 87: 182
- The Early Stages of the Combustion of Pulverized Coal at High Temperatures III: The Production of Nitrogen Oxides during Devolatilization, 87: 306
- A Generalization of Laminar Burning Velocities and Volumetric Heat Release Rates, 87: 336
- Mixing Rules for State Relationships of Methane and Acetylene/Air Diffusion Flames, 87: 357
- 13. EXPERIMENTAL TECHNIQUES OR RESULTS: PLUG FLOW REACTORS**
- Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: II. Computations for Stagnation-Point Flow, 84: 292
- Homogeneous N_2O Chemistry at Fluidized Bed Combustion Conditions: A Kinetic Modeling Study, 85: 94
- Identification of the Hydroperoxide Formed by Isomerization Reactions During the Oxidation of *n*-Heptane in a Reactor and CFR Engine, 85: 511
- Hydroxyl Radical Concentration Measurements in Moist Carbon Monoxide Oxidation in a Chemical Kinetic Flow Reactor, 86:162
- 14. EXPERIMENTAL TECHNIQUES OR RESULTS: QUASI-STATIC VESSELS**
- Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part I. An Experimental Study, 83: 75
- Diffusion Flame Stabilization and Extinction Under Naturally Convective Flows, 83: 309
- Effectiveness of Dust Explosion Suppression by Carbonates and Phosphates, 85: 520
- Ignition of $\text{H}_2/\text{O}_2/\text{NH}_3$, $\text{H}_2/\text{Air}/\text{NH}_3$ and $\text{CH}_4/\text{O}_2/\text{NH}_3$ Mixtures by Excimer-Laser Photolysis of NH_3 , 87:191
- 15. EXPERIMENTAL TECHNIQUES OR RESULTS: SHOCK TUBES**
- The Influence of Initial Pressure and Temperature on Hydrogen-Air-Diluent Detonations, 83: 353
- Ignition Delay Times of Nitromethane-Oxygen-Argon Mixtures Behind Reflected Shock, 85: 275
- Combustion of Methyl *tert*-Butyl Ether. Part I: Ignition in Shock Waves, 85: 489

- Transition to Detonation in Corn Starch Dust-Oxygen and-Air Mixtures, 86: 21
- Ignition of Monomethyl Amine, 86: 229
- 16. EXPERIMENTAL TECHNIQUES OR RESULTS: WELL STIRRED REACTORS
 - Measurements and Modeling of Light Hydrocarbons in Rich C_2H_4 Combustion in a Jet-Stirred Reactor, 84: 38
- 17. FIRE OR EXPLOSION PHENOMENA, COMBUSTION SAFETY
 - Graphite Formation in the Hiroshima Fire Storm, 83: 106
 - Wind-Aided Flame Spread Over Thick Solids, 83: 127
 - Mode of Burning Zone Spread in an Opposed Gas Flow, 83: 146
 - Species Production and Heat Release Rates in Two-Layered Natural Gas Fires, 83: 325
 - A Study of Flame Spread Over Alcohols Using Holographic Interferometry, 83: 375
 - Scale Effects on the External Combustion Caused by Venting of a Confined Explosion, 83: 399
 - Influence of Obstacles on Flame Propagation and Gas Movement Ahead of Flame in an Open Space—Effects of Nets Laid on Floor, 84: 110
 - Turbulent Jet Initiation of Detonation, 84: 170
 - Comparison Between Shock Initiations of Detonation Using Thermally-Sensitive and Chain-Branching Chemical Models, 85: 185
 - Vented Gas Deflagration Modeling: A Simplified Approach, 85: 319
 - The Acceleration of Flame Propagation in a Tube by an Obstacle, 85: 363
 - Effectiveness of Dust Explosion Suppression by Carbonates and Phosphates, 85: 520
 - Comment on "The Effect of Preheating of Wood on Ignition Temperature of Wood Char," by F.-Y. Hsieh and G.N. Richards, 85: 529
 - Buoyancy-Driven Turbulent Diffusion Flames, 86: 203
 - Estimate of Flame Radiance via a Single Location Measurement in Liquid Pool Fires, 86: 223
 - Influence of an External Radiant Flux on a 15-cm-Diameter Kerosene Pool Fire, 86: 237
 - Reconstruction of Fire Whirls Using Scale Models, 86: 269
 - Numerical Modeling of Buoyant Ethanol-Air Wick Diffusion Flames, 87: 169
- Nonuniformities in Initial Temperature and Concentration as a Cause of Explosive Chemical Reactions in Combustible Gases, 87: 347
- On the Combustion Mechanism of Coal Dust in the Presence of Firedamp, 87: 371
- 18. FLAME IGNITION OR STABILIZATION
 - Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part I. An Experimental Study, 83: 75
 - Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part II. A Model Development, 83: 88
 - Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
 - Nonplanar Flame Configurations in Stagnation Point Flow, 84: 221
 - Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: I. Experimental Results Over Platinum, 84: 277
 - Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: II. Computations for Stagnation-Point Flow, 84: 292
 - The Use of Time to Ignition Data for Characterizing the Thermal Inertia and the Minimum (Critical) Heat Flux for Ignition or Pyrolysis, 84: 323
 - Ignition of AP-Based Composite Solid Propellants Containing Nitramines Exposed to CO_2 Laser Radiation at Subatmospheric Pressures, 85: 68
 - Laser-Based Ignition of H_2/O_2 and D_2O_2 Premixed Gases Through Resonant Multiphoton Excitation of H and D Atoms Near 243 nm, 85: 254
 - Ignition Delay Times of Nitromethane-Oxygen-Argon Mixtures Behind Reflected Shock, 85: 275
 - Combustion of Methane and Propane in an Incipently Fluidized Bed, 85: 449
 - Combustion of Methyl *tert*-Butyl Ether. Part I: Ignition in Shock Waves, 85: 489
 - Influence of the Morphology of Lycopodium Dust on its Minimum Ignition Energy, 85: 526
 - On the Characteristics of Laminar Lifted Flames in a Nonpremixed Jet, 86: 62
 - Ignition and Combustion of Small Boron Lumps in an Oxygen Stream, 86: 216
 - Ignition of Monomethyl Amine, 86: 229

- Asymptotic Analysis of the High-Temperature Ignition of $\text{CO}/\text{H}_2/\text{O}_2$ Mixtures, 86: 285
- Blowout of Nonpremixed Flames: Maximum Coaxial Air Velocities Achievable, with and without Swirl, 86: 347
- Ignition of $\text{H}_2/\text{O}_2/\text{NH}_3$, $\text{H}_2/\text{Air}/\text{NH}_3$ and $\text{CH}_4/\text{O}_2/\text{NH}_3$ Mixtures by Excimer-Laser Photolysis of NH_3 , 87: 191
- Mathematical Modeling of Critical Phenomena in Thermal Explosion Theory, 87: 203
- 19. FLAME QUENCHING OR EXTINCTION**
- Piloted Diffusion Flames of $\text{CO}/\text{CH}_4/\text{N}_2$ and $\text{CO}/\text{H}_2/\text{N}_2$ Near Extinction, 83: 63
- Diffusion Flame Stabilization and Extinction Under Naturally Convective Flows, 83: 309
- Isotope Effects on the Combustion Properties of Deuterium and Hydrogen, 84: 154
- Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: I. Experimental Results Over Platinum, 84: 277
- Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: II. Computations for Stagnation-Point Flow, 84: 292
- Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction, 85: 215
- The Acceleration of Flame Propagation in a Tube by an Obstacle, 85: 363
- Premixed Turbulent Burning Velocities Derived from Mixing Controlled Reaction Models With Cold Front Quenching, 85: 427
- The Interaction Between External and Internal Heat Losses on the Flame Extinction of Dilute Sprays, 85: 468
- On the Characteristics of Laminar Lifted Flames in a Nonpremixed Jet, 86: 62
- Effects of Pressure on Structure and Extinction of Tubular Flame, 86: 90
- The Effect of Back Diffusion of Intermediate Hydrogen on Methane-Air and Propane-Air Flames Diluted with Nitrogen in a Stagnation Flow, 86: 135
- Diffusion-Flame Extinction of Liquid Fuel at Elevated Pressures, 86: 171
- Extinction of Methane-Oxygen Mixtures by Nitrogen Dilution, 86: 185
- Simultaneous Effects of Fuel/Oxidizer Concentrations on the Extinction of Counterflow Diffusion Flames, 86: 383
- 20. FLAMES: DIFFUSION**
- Effect of Damkohler Number on the Reactive Zone Structure in a Shear Layer, 83: 1
- Turbulent Mixing Model Based on Ordered Pairing, 83: 27
- Piloted Diffusion Flames of $\text{CO}/\text{CH}_4/\text{N}_2$ and $\text{CO}/\text{H}_2/\text{N}_2$ Near Extinction, 83: 63
- Mode of Burning Zone Spread in an Opposed Gas Flow, 83: 146
- Relative Importance of Nitric Oxide Formation Mechanisms in Laminar Opposed-Flow Diffusion Flames, 83: 185
- An Integral Method for Mixing, Chemical Reactions, and Extinction in Unsteady Strained Diffusion Layers, 83: 207
- Preliminary Results of a Numerical-Experimental Study of the Dynamic Structure of a Buoyant Jet Diffusion Flames, 83: 263
- A Reduced-Scale Mass Fire Experiment, 83: 293
- Diffusion Flame Stabilization and Extinction Under Naturally Convective Flows, 83: 309
- Species Production and Heat Release Rates in Two-Layered Natural Gas Fires, 83: 325
- The Effect of Surface Radiation on Flame Spread in a Quiescent, Microgravity Environment, 84: 160
- A Study of Confined Diffusion Flames, 84: 249
- Predictions of a Turbulent Reacting Jet in a Cross-Flow, 84: 361
- The Effect of Heat Release on Various Statistical Properties of a Reacting Shear Layer, 85: 51
- Formation of Particles in H_2 - O_2 Counterflow Diffusion Flame Doped with SiH_4 or SiCl_4 , 85: 134
- A One-Dimensional Integral Model of Turbulent Jet Diffusion, 85: 143
- Wind-Aided Turbulent Flame Spread and Burning Over Large-Scale Horizontal PMMA Surfaces, 85: 169
- Scaling of Buoyant Turbulent Jet Diffusion Flames, 85: 206
- Tomographic Reconstruction of FT-IR Emission and Transmission Spectra in a Sooting Laminar Diffusion Flame: Species Concentrations and Temperatures, 85: 309
- Planar Imaging of Soot Formation in Turbulent Ethylene Diffusion Flames: Fluctuations and Integral Scales, 85: 389
- On the Numerical Modeling of Buoyancy-Dominated Turbulent Vertical Diffusion Flames, 85: 403
- Burning Rate of Liquid Supplied Through a Wick, 86: 47
- On the Characteristics of Laminar Lifted Flames in a Nonpremixed Jet, 86: 62

- Numerical Simulations of Unsteady Reactive Flows in a Combustion Chamber, 86: 115
- Combustion of a Spherical Carbon Particle in Slow Viscous Flow, 86: 147
- Diffusion-Flame Extinction of Liquid Fuel at Elevated Pressures, 86: 171
- Smoke Reduction from Burning Crude Oil Using Ferrocene and Its Derivatives, 86: 179
- The Combustion of a Linear Droplet Array in a Convective, Coaxial Potential Flow, 86: 189
- Buoyancy-Driven Turbulent Diffusion Flames, 86: 203
- Estimate of Flame Radiance via a Single Location Measurement in Liquid Pool Fires, 86: 223
- Trajectory and Incineration of Rogue Droplets in a Turbulent Diffusion Flame, 86: 297
- Blowout of Nonpremixed Flames: Maximum Coaxial Air Velocities Achievable, with and without Swirl, 86: 347
- Combustion in a Stretched Fuel Strip with Finite Rate Chemistry, 86: 359
- Simultaneous Effects of Fuel/Oxidizer Concentrations on the Extinction of Counterflow Diffusion Flames, 86: 383
- Carbon Monoxide and Soot Emissions from Liquid-Fueled Buoyant Turbulent Diffusion Flames, 87: 61
- Flame Synthesis of High T_c Superconductors, 87: 100
- Numerical Modeling of Buoyant Ethanol-Air Wick Diffusion Flames, 87: 169
- A Laminar Vortex Interacting with a Premixed Flame: Measured Formation of Pockets of Reactants, 87: 245
- A Study of Favre Averaging in Turbulent Flows with Chemical Reaction, 87: 257
- Oxides of Nitrogen Emissions from Turbulent Jet Flames: Part I—Fuel Effects and Flame Radiation, 87: 319
- Mixing Rules for State Relationships of Methane and Acetylene/Air Diffusion Flames, 87: 357
- 21. FLAMES: NONSTEADY**
- Effect of Damkohler Number on the Reactive Zone Structure in a Shear Layer, 83: 1
- Harmonic Frequency Generation by Oscillating Flames, 83: 253
- Preliminary Results of a Numerical-Experimental Study of the Dynamic Structure of a Buoyant Jet Diffusion Flames, 83: 263
- Time-Resolved Velocities and Turbulence in the Oscillating Flow of a Pulse Combustor Tail Pipe, 83: 271
- Local Flame Front Disturbance: Development Under Acceleration, 84: 66
- Analysis of Transient Combustion of a Multi-component Liquid Fuel Droplet, 84: 197
- Pulsating Gas-Solid Flow Inside a Bench-Scale Reactor, 84: 225
- A Study of Confined Diffusion Flames, 84: 249
- Numerical Simulations of Unsteady Reactive Flows in a Combustion Chamber, 86: 115
- Temperature Fluctuations in Pulverized Coal (P.C.) Flames, 86: 333
- Pressure Hot-Wire and Laser Doppler Anemometer Studies of Flame Acceleration in Long Tubes, 87: 21
- Propagation of Premixed Gaseous Explosion Flames in a Porous Media, 87: 182
- A Laminar Vortex Interacting with a Premixed Flame: Measured Formation of Pockets of Reactants, 87: 245
- 22. FLAMES: PREMIXED**
- Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17
- Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part I. An Experimental Study, 83: 75
- Spark Ignition of Propane-Air Mixtures Near the Minimum Ignition Energy: Part II. A Model Development, 83: 88
- Structure and Propagation Speeds of Turbulent Premixed Flames—A Numerical Study, 83: 155
- Measurements of the Structure of Laminar, Premixed Flames of $\text{CH}_4/\text{NO}_2/\text{O}_2$ and $\text{CH}_2\text{O}/\text{NO}_2/\text{O}_2$ Mixtures, 83: 228
- Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of 1,2- $\text{C}_2\text{H}_4\text{Cl}_2$ and CH_4 , 83: 365
- Flame Propagation in Solids and High-Density Fluids With Arrhenius Reactant Diffusion, 83: 390
- An Experimental Study on Detailed Flame Structure of Liquid Fuel Sprays With and Without Gaseous Fuel, 84: 3
- Local Flame Front Disturbance: Development Under Acceleration, 84: 66
- Species Profiles in Solid Propellant Flames Using Absorption and Emission Spectroscopy, 84: 73
- Acoustics of a Low-Speed Dump Combustor, 84: 93

- Influence of Obstacles on Flame Propagation and Gas Movement Ahead of Flame in an Open Space—Effects of Nets Laid on Floor, 84: 110
- The Influence of Radiative Heat Feedback on Burning Rate in Metalized Propellants, 84: 141
- Isotope Effects on the Combustion Properties of Deuterium and Hydrogen, 84: 154
- Nonplanar Flame Configurations in Stagnation Point Flow, 84: 221
- On the Burning Velocity of Stretched Flames, 84: 238
- Incipient Soot Formation in Dichloromethane–Methane–Air Premixed Flames, 84: 265
- Simulations of Flame–Vortex Interaction, 84: 343
- Premixed Flames in Stagnating Turbulence: Part I. The General Formulation for Counterflowing Streams and Gradient Models for Turbulent Transport, 84: 391
- The Structure and Stability of Nonadiabatic Flame Balls: II. Effects of Far-Field Losses, 84: 411
- The Influence of Burner Geometry on Premixed Turbulent Flame Propagation, 85: 12
- Laser-Induced Fluorescence Diagnostics and Chemical Modeling of a $\text{CH}_4/\text{NO}_2/\text{O}_2$ Flame at 55 Torr, 85: 27
- Laminar Flame Structure and Burning Velocities of Premixed Methanol–Air, 85: 105
- On the Reactivity of Hydroperoxy Radicals and Hydrogen Peroxide in a Two-Stage Butane–Air Flame, 85: 263
- Numerical Investigation of Time-Dependent Properties and Extinction of Strained Methane– and Propane–Air Flamelets, 85: 285
- Further Insights Into SI Four-Stroke Combustion Using Flame Imaging, 85: 331
- The Acceleration of Flame Propagation in a Tube by an Obstacle, 85: 363
- Vortex Shedding Behind Rod Stabilized Flames, 86: 1
- Oxidation Rates of Carbon Particles in Methane–Air Flames, 86: 12
- Effects of Pressure on Structure and Extinction of Tubular Flame, 86: 90
- The Effect of Back Diffusion of Intermediate Hydrogen on Methane–Air and Propane–Air Flames Diluted with Nitrogen in a Stagnation Flow, 86: 135
- Extinction of Methane–Oxygen Mixtures by Nitrogen Dilution, 86: 185
- Stretching and Quenching of Flamelets in Premixed Turbulent Combustion, 86: 311
- Combustion Mechanism of Carbon Monoxide–Nitrous Oxide Flames, 87: 13
- Very High Pressure Combustion: Reaction Propagation Rates of Nitromethane within a Diamond Anvil Cell, 87: 109
- Luminescence from Hydrogen–Fluorine Flames, Dilute in Methane, 87: 136
- Effect of Ferrocene on Soot in a Pre vaporized Iso-Octane/Air Diffusion Flame, 87: 233
- The Early Stages of the Combustion of Pulverized Coal at High Temperatures III: The Production of Nitrogen Oxides during Devolatilization, 87: 306
- A Generalization of Laminar Burning Velocities and Volumetric Heat Release Rates, 87: 336
- Detailed Reduction of Reaction Mechanisms for Flame Modeling, 87: 365
- 23. FLAMES: TURBULENT**
- Pressure-Density Correlation in a Turbulent Reacting Flow, 83: 17
- Turbulent Mixing Model Based on Ordered Pairing, 83: 27
- Piloted Diffusion Flames of $\text{CO}/\text{CH}_4/\text{N}_2$ and $\text{CO}/\text{H}_2/\text{N}_2$ Near Extinction, 83: 63
- Structure and Propagation Speeds of Turbulent Premixed Flames—A Numerical Study, 83: 155
- An Integral Method for Mixing, Chemical Reactions, and Extinction in Unsteady Strained Diffusion Layers, 83: 207
- A Reduced-Scale Mass Fire Experiment, 83: 293
- Species Production and Heat Release Rates in Two-Layered Natural Gas Fires, 83: 325
- Scale Effects on the External Combustion Caused by Venting of a Confined Explosion, 83: 399
- A Note on the Scalar Dissipation Rates in Turbulent Flows, 83: 412
- Simulations of Flame–Vortex Interaction, 84: 343
- Predictions of a Turbulent Reacting Jet in a Cross-Flow, 84: 361
- Premixed Flames in Stagnating Turbulence: Part I. The General Formulation for Counterflowing Streams and Gradient Models for Turbulent Transport, 84: 391
- The Effect of Heat Release on Various Statistical Properties of a Reacting Sheer Layer, 85: 51

- A One-Dimensional Integral Model of Turbulent Jet Diffusion, 85: 143
- Wind-Aided Turbulent Flame Spread and Burning Over Large-Scale Horizontal PMMA Surfaces, 85: 169
- Scaling of Buoyant Turbulent Jet Diffusion Flames, 85: 206
- Turbulent Partially Premixed Flames of Nitrogen-Diluted Methane Near Extinction, 85: 215
- Further Insights Into SI Four-Stroke Combustion Using Flame Imaging, 85: 331
- Planar Imaging of Soot Formation in Turbulent Ethylene Diffusion Flames: Fluctuations and Integral Scales, 85: 389
- On the Numerical Modeling of Buoyancy-Dominated Turbulent Vertical Diffusion Flames, 85: 403
- Premixed Turbulent Burning Velocities Derived from Mixing Controlled Reaction Models With Cold Front Quenching, 85: 427
- The Formation of NH_3 , HCN , and N_2O in an Air-Staged Fuel Oil Flame, 85: 499
- LDA Measurements in the Premixed V Flame Stabilized in the Wake of a Flat Plate Boundary Layer, 85: 505
- Vortex Shedding Behind Rod Stabilized Flames, 86: 1
- Buoyancy-Driven Turbulent Diffusion Flames, 86: 203
- Reconstruction of Fire Whirls Using Scale Models, 86: 269
- Trajectory and Incineration of Rogue Droplets in a Turbulent Diffusion Flame, 86: 297
- Stretching and Quenching of Flamelets in Premixed Turbulent Combustion, 86: 311
- Blowout of Nonpremixed Flames: Maximum Coaxial Air Velocities Achievable, with and without Swirl, 86: 347
- Pressure Hot-Wire and Laser Doppler Anemometer Studies of Flame Acceleration in Long Tubes, 87: 21
- Carbon Monoxide and Soot Emissions from Liquid-Fueled Buoyant Turbulent Diffusion Flames, 87: 61
- A Laminar Vortex Interacting with a Premixed Flame: Measured Formation of Pockets of Reactants, 87: 245
- A Study of Favre Averaging in Turbulent Flows with Chemical Reaction, 87: 257
- Oxides of Nitrogen Emissions from Turbulent Jet Flames: Part I—Fuel Effects and Flame Radiation, 87: 319

24. FLAMMABILITY

- Influence of the Morphology of Lycopodium Dust on its Minimum Ignition Energy, 85: 526
- Nonuniformities in Initial Temperature and Concentration as a Cause of Explosive Chemical Reactions in Combustible Gases, 87: 347
- On the Combustion Mechanism of Coal Dust in the Presence of Firedamp, 87: 371

25. FLUID DYNAMICS: STEADY FLOW

- Nonplanar Flame Configurations in Stagnation Point Flow, 84: 221
- Asymptotic Analysis of the High-Temperature Ignition of $\text{CO}/\text{H}_2/\text{O}_2$ Mixtures, 86: 285

26. FLUID DYNAMICS: NONSTEADY AND INSTABILITY

- Time-Resolved Velocities and Turbulence in the Oscillating Flow of a Pulse Combustor Tail Pipe, 83: 271
- Acoustics of a Low-Speed Dump Combustor, 84: 93
- Pulsating Gas-Solid Flow Inside a Bench-Scale Reactor, 84: 225
- The Behavior of Detonation Waves at Concentration Gradients, 84: 312
- Vortex Shedding Behind Rod Stabilized Flames, 86: 1
- Numerical Simulations of Unsteady Reactive Flows in a Combustion Chamber, 86: 115
- Reconstruction of Fire Whirls Using Scale Models, 86: 269
- Combustion in a Stretched Fuel Strip with Finite Rate Chemistry, 86: 359

27. FLUID DYNAMICS: TURBULENT

- Predictions of a Turbulent Reacting Jet in a Cross-Flow, 84: 361
- A One-Dimensional Integral Model of Turbulent Jet Diffusion, 85: 143
- Scaling of Buoyant Turbulent Jet Diffusion Flames, 85: 206
- On the Numerical Modeling of Buoyancy-Dominated Turbulent Vertical Diffusion Flames, 85: 403
- Vortex Shedding Behind Rod Stabilized Flames, 86: 1
- A Laminar Vortex Interacting with a Premixed Flame: Measured Formation of Pockets of Reactants, 87: 245

28. FUELS, OXIDIZERS AND ADDITIVES, NONCONVENTIONAL
 - Effect of Ozone on Combustion of Compression Ignition Engines, 85: 515
 - Combustion of Nitro Derivatives of Azidobenzenes and Benzofuroxans, 87: 123
 - Effect of Ferrocene on Soot in a Prevaporized Iso-Octane/Air Diffusion Flame, 87: 233
29. HETEROGENEOUS COMBUSTION: AEROSOLS, SPRAYS AND AIRBORNE DUSTS
 - An Experimental Study on Detailed Flame Structure of Liquid Fuel Sprays With and Without Gaseous Fuel, 84: 3
 - Pulsating Gas-Solid Flow Inside a Bench-Scale Reactor, 84: 225
 - Theory of Laminar Flame Propagation in Near-Stoichiometric Dilute Sprays, 84: 333
 - Evaporation Characteristics of Fuel and Multi-fuel Droplets, 85: 300
 - Effect of Ozone on Combustion of Compression Ignition Engines, 85: 515
 - Effectiveness of Dust Explosion Suppression by Carbonates and Phosphates, 85: 520
 - Transition to Detonation in Corn Starch Dust-Oxygen and-Air Mixtures, 86: 21
 - Comparison Between Experiments and Predictions Based on Maximum Entropy for Sprays from a Pressure Atomizer, 86: 73
 - The Combustion of a Linear Droplet Array in a Convective, Coaxial Potential Flow, 86: 189
 - Trajectory and Incineration of Rogue Droplets in a Turbulent Diffusion Flame, 86: 297
 - Flame Synthesis of High T_c Superconductors, 87: 100
30. HETEROGENEOUS COMBUSTION: CATALYTIC COMBUSTION
 - A Model of Large Heat Transfer Surface Combustion with Radiant Heat Emission, 83: 111
 - Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: I. Experimental Results Over Platinum, 84: 277
 - Bifurcation Behavior in Homogeneous-Heterogeneous Combustion: II. Computations for Stagnation-Point Flow, 84: 292
 - Noncatalytic Thermocouple Coating for Low-Pressure Flames, 85: 282
 - Chemi-Ionization Produced by the Catalytic Combustion of a Hydrocarbon, 87: 211
31. HETEROGENEOUS COMBUSTION: COAL, CHAR OR CARBON
 - Modeling the Combustion Behavior of Petroleum Coke, 83: 221
 - Devolatilization Wave Structures and Temperatures for the Pyrolysis of Polymethylmethacrylate, Ammonium Perchlorate, and Coal at Combustion Level Heat Fluxes, 84: 15
 - Combustion Behavior and Kinetics of Synthetic and Coal-Derived Chars: Comparison of Theory and Experiment, 84: 47
 - Combustion Properties of Pure and Fire-Retarded Cellulose, 84: 121
 - Measurements and Analysis of Temperature Histories and Size Changes for Single Carbon and Coal Particles During the Early Stages of Heating and Devolatilization, 84: 210
 - Infrared Investigation of the Oxygen Chemisorption of Wood Char, 84: 423
 - Microstructural Changes of Diesel Soot During Oxidation, 85: 1
 - Local Particle Velocity, Size and Concentration Measurements in an Industrial-Scale Pulverized Coal-Fired Boiler, 85: 121
 - Does Carbon Monoxide Burn Inside a Fluidized Bed? A New Model for the Combustion of Coal Char Particles in Fluidized Beds, 85: 155
 - Growth Rate of Soot Particles, 85: 279
 - Transient Heating of Coal Particles Undergoing Pyrolysis, 85: 380
 - Nitric Oxide Reduction in the Postflame Region of Pulverized Coal Flames, 85: 440
 - Soot Surface Growth at Active Sites, 85: 523
 - Influence of the Morphology of Lycopodium Dust on its Minimum Ignition Energy, 85: 526
 - Oxidation Rates of Carbon Particles in Methane-Air Flames, 86: 12
 - Combustion of a Single Carbon or Char Particle in the Presence of High Acoustic Fields, 86: 33
 - Combustion of a Spherical Carbon Particle in Slow Viscous Flow, 86: 147
 - The Oxidation of Solid Graphite Using a 5-kW CO₂ Laser, 86: 249
 - Agglomerate Formation During Coal Combustion: A Mechanistic Model, 86: 258
 - Temperature Fluctuations in Pulverized Coal (P.C.) Flames, 86: 333
 - A Light Scattering Method to Discriminate between Coal and Fly Ash Particles Dispersed in Air, 86: 394
 - Combustion Rates of Pulverized Coal Particles

- in High-Temperature/High-Oxygen Concentration Atmosphere, 87: 1
- Release of Carbon Particles by the Oxidation of a Graphite Surface in Cross Flow. Part I: Experimental Investigation, 87: 33
- Coherent Anti-Stokes Raman Spectroscopy (CARS) Measurements in Coal-Seeded Flames, 87: 77
- Agglomerate Parameters and Fractal Dimension of Soot Using Light Scattering-Effects on Surface Growth, 87: 89
- Nitrous Oxide Emissions from an Industry-Type Pulverized-Coal Burner, 87: 104
- The Early Stages of the Combustion of Pulverized Coal at High Temperatures III: The Production of Nitrogen Oxides during Devolatilization, 87: 306
- On the Combustion Mechanism of Coal Dust in the Presence of Firedamp, 87: 371
- 32. HETEROGENEOUS COMBUSTION: SINGLE DROPLET OR PARTICLE
 - Analysis of Transient Combustion of a Multi-component Liquid Fuel Droplet, 84: 197
 - Measurements and Analysis of Temperature Histories and Size Changes for Single Carbon and Coal Particles During the Early Stages of Heating and Devolatilization, 84: 210
 - Estimating Instantaneous Properties of Vaporizing Light Petroleum Fractions, 84: 427
 - Gassification and Shell Characteristics in Slurry Droplet Burning, 85: 77
 - Evaporation Characteristics of Fuel and Multi-fuel Droplets, 85: 300
 - Combustion of a Single Carbon or Char Particle in the Presence of High Acoustic Fields, 86: 33
 - Combustion of a Spherical Carbon Particle in Slow Viscous Flow, 86: 147
 - The Combustion of a Linear Droplet Array in a Convective, Coaxial Potential Flow, 86: 189
 - Ignition and Combustion of Small Boron Lumps in an Oxygen Stream, 86: 216
 - Trajectory and Incineration of Rogue Droplets in a Turbulent Diffusion Flame, 86: 297
 - Combustion Rates of Pulverized Coal Particles in High-Temperature/High-Oxygen Concentration Atmosphere, 87: 1
 - Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
 - A Study of Flame Spread Over Alcohols Using Holographic Interferometry, 83: 375
 - Flame Propagation in Solids and High-Density Fluids With Arrhenius Reactant Diffusion, 83: 390
 - Species Profiles in Solid Propellant Flames Using Absorption and Emission Spectroscopy, 84: 73
 - Combustion Properties of Pure and Fire-Retarded Cellulose, 84: 121
 - The Influence of Radiative Heat Feedback on Burning Rate in Metalized Propellants, 84: 141
 - The Effect of Surface Radiation on Flame Spread in a Quiescent, Microgravity Environment, 84: 160
 - Influence of Fuel on the Emission of Nitrogen Oxides (NO and N₂) From an 8-MW Fluidized Bed Boiler, 84: 181
 - Infrared Investigation of the Oxygen Chemisorption of Wood Char, 84: 423
 - Estimating Instantaneous Properties of Vaporizing Light Petroleum Fractions, 84: 427
 - Homogeneous N₂O Chemistry at Fluidized Bed Combustion Conditions: A Kinetic Modeling Study, 85: 94
 - Does Carbon Monoxide Burn Inside a Fluidized Bed? A New Model for the Combustion of Coal Char Particles in Fluidized Beds, 85: 155
 - Wind-Aided Turbulent Flame Spread and Burning Over Large-Scale Horizontal PMMA Surfaces, 85: 169
 - Burning Rates of Coke Particles in the Freeboard Above a Fluidized Bed Reactor, 85: 232
 - XPS Study of Condensed Phase Combustion in Double-Base Rocket Propellant With and Without Lead Salt-Burning Rate Modifier, 85: 416
 - Burning Rate of Liquid Supplied Through a Wick, 86: 47
 - Influence of an External Radiant Flux on a 15-cm-Diameter Kerosene Pool Fire, 86: 237
 - Numerical Modeling of Buoyant Ethanol-Air Wick Diffusion Flames, 87: 169
- 33. HETEROGENEOUS COMBUSTION: SLAB, POOL, FLUIDIZED BED, ETC.
 - Mode of Burning Zone Spread in an Opposed Gas Flow, 83: 146
 - Numerical Model of Ignition Processes of
- 34. INHIBITION—NONE
- 35. IONIZATION AND/OR ELECTRICAL EFFECTS
 - Chemi-Ionization Produced by the Catalytic Combustion of a Hydrocarbon, 87: 211

36. KINETICS AND/OR REACTION

MECHANISMS: DETAILED

- Kinetics of High-Temperature B/O/H/C Chemistry, 83: 43
- Modeling the Combustion Behavior of Petroleum Coke, 83: 221
- Thermal Decomposition of Energetic Materials
46. The Formation of Melamine-like Cyclic Azines as a Mechanism for Ballistic Modification of Composite Propellants by DCD, DAG, and DAF, 83: 302
- Thermal Decomposition of Energetic Materials
49. Thermolysis Routes of Mono- and Diaminotetrazoles, 83: 345
- Chemical Structures of Fuel-Rich, Premixed, Laminar Flames of 1,2-C₂H₄Cl₂ and CH₄, 83: 365
- Simulations of Flame-Vortex Interaction, 84: 343
- Gaseous Hydrocarbon-Air Detonations, 84: 376
- Laser-Induced Fluorescence Diagnostics and Chemical Modeling of a CH₄/NO₂/O₂ Flame at 55 Torr, 85: 27
- Homogeneous N₂O Chemistry at Fluidized Bed Combustion Conditions: A Kinetic Modeling Study, 85: 94
- Laminar Flame Structure and Burning Velocities of Premixed Methanol-Air, 85: 105
- Formation of Particles in H₂-O₂ Counterflow Diffusion Flame Doped with SiH₄ or SiCl₄, 85: 134
- On the Reactivity of Hydroperoxy Radicals and Hydrogen Peroxide in a Two-Stage Butane-Air Flame, 85: 263
- Numerical Investigation of Time-Dependent Properties and Extinction of Strained Methane- and Propane-Air Flamelets, 85: 285
- Identification of the Hydroperoxide Formed by Isomerization Reactions During the Oxidation of *n*-Heptane in a Reactor and CFR Engine, 85: 511
- Hydroxyl Radical Concentration Measurements in Moist Carbon Monoxide Oxidation in a Chemical Kinetic Flow Reactor, 86: 162
- Ignition of Monomethyl Amine, 86: 229
- Absolute Rate Data for Reactions of Ground-State Atomic Calcium, Ca(4s²(¹S₀)), at Elevated Temperatures Determined by Time-Resolved Atomic Resonance Absorption Spectroscopy at $\lambda = 422.7$ nm (4¹P₁ ← 4¹S₀), 86: 371
- Combustion Mechanism of Carbon Monoxide-Nitrous Oxide Flames, 87: 13

Combustion of Nitro Derivatives of Azidobenzenes and Benzofuroxans, 87: 123

Benzene Destruction in Fuel-Rich Jet-Stirred Reactor-Combustion, 87: 278

A Simplified Reaction Mechanism for Soot Formation in Nonpremixed Flames, 87: 289

Detailed Reduction of Reaction Mechanisms for Flame Modeling, 87: 365

37. KINETICS AND/OR REACTION

MECHANISMS: OVERALL

- On the Reactivity of Hydroperoxy Radicals and Hydrogen Peroxide in a Two-Stage Butane-Air Flame, 85: 263
- Growth Rate of Soot Particles, 85: 279
- Thermal Decomposition of Energetic Materials
50. Kinetics and Mechanism of Nitrate Ester Polymers at High Heating Rates by SMATCH/FTIR Spectroscopy, 85: 479
- Oxidation Rates of Carbon Particles in Methane-Air Flames, 86: 12
- Why Does Soot Inception Stop?, 86: 187
- Ignition of Monomethyl Amine, 86: 229
- Influence of an External Radiant Flux on a 15-cm-Diameter Kerosene Pool Fire, 86: 237
- Release of Carbon Particles by the Oxidation of a Graphite Surface in Cross Flow. Part I: Experimental Investigation, 87: 33
- Thermal Decomposition of Energetic Materials
52. On the Foam Zone and Surface Chemistry of Rapidly Decomposing HMX, 87: 45
- Nitrous Oxide Emissions from an Industry-Type Pulverized-Coal Burner, 87: 104
- Thermal Decomposition of Energetic Materials
53. Kinetics and Mechanism of Thermolysis of Hexanitrohexaazaisowurtzitane, 87: 145
- Thermal Decomposition of Energetic Materials
54. Kinetics and Near-Surface Products of Azide Polymers AMMO, BAMO, and GAP in Simulated Combustion, 87: 157
- Chemistry and Kinetics of Hydroxyl-terminated Polybutadiene (HTPB) and Diisocyanate HTPB Polymers during Slow Decomposition and Combustion-like Conditions, 87: 217

38. POLLUTANTS: INORGANICS AND SOOT

Graphite Formation in the Hiroshima Fire Storm, 83: 106

Relative Importance of Nitric Oxide Formation Mechanisms in Laminar Opposed-Flow Diffusion Flames, 83: 185

Incipient Soot Formation in Dichloromethane-Methane-Air Premixed Flames, 84: 265

- Microstructural Changes of Diesel Soot During Oxidation, 85: 1
- Formation of Particles in H_2 - O_2 Counterflow Diffusion Flame Doped with SiH_4 or $SiCl_4$, 85: 134
- Growth Rate of Soot Particles, 85: 279
- Tomographic Reconstruction of FT-IR Emission and Transmission Spectra in a Sooting Laminar Diffusion Flame: Species Concentrations and Temperatures, 85: 309
- Planar Imaging of Soot Formation in Turbulent Ethylene Diffusion Flames: Fluctuations and Integral Scales, 85: 389
- Soot Surface Growth at Active Sites, 85: 523
- Smoke Reduction from Burning Crude Oil Using Ferrocene and Its Derivatives, 86: 179
- Why Does Soot Inception Stop?, 86: 187
- Agglomerate Formation During Coal Combustion: A Mechanistic Model, 86: 258
- Carbon Monoxide and Soot Emissions from Liquid-Fueled Buoyant Turbulent Diffusion Flames, 87: 61
- Agglomerate Parameters and Fractal Dimension of Soot Using Light Scattering-Effects on Surface Growth, 87: 89
- Chemi-Ionization Produced by the Catalytic Combustion of a Hydrocarbon, 87: 211
- Effect of Ferrocene on Soot in a Pre vaporized Iso-Octane/Air Diffusion Flame, 87: 233
- A Simplified Reaction Mechanism for Soot Formation in Nonpremixed Flames, 87: 289
39. POLLUTANTS: NO_x
- Relative Importance of Nitric Oxide Formation Mechanisms in Laminar Opposed-Flow Diffusion Flames, 83: 185
- Influence of Fuel on the Emission of Nitrogen Oxides (NO and N_2) From an 8-MW Fluidized Bed Boiler, 84: 181
- Homogeneous N_2O Chemistry at Fluidized Bed Combustion Conditions: A Kinetic Modeling Study, 85: 94
- Nitric Oxide Reduction in the Postflame Region of Pulverized Coal Flames, 85: 440
- The Formation of NH_3 , HCN , and N_2O in an Air-Staged Fuel Oil Flame, 85: 499
- Combustion Mechanism of Carbon Monoxide-Nitrous Oxide Flames, 87: 13
- Nitrous Oxide Emissions from an Industry-Type Pulverized-Coal Burner, 87: 104
- Use of a Gas-Surface Chemiluminescence Analyzer for NO and NO_2 Measurements in Combustion, 87: 152
- The Early Stages of the Combustion of Pulverized Coal at High Temperatures III: The Production of Nitrogen Oxides during Devolatilization, 87: 306
- Oxides of Nitrogen Emissions from Turbulent Jet Flames: Part I—Fuel Effects and Flame Radiation, 87: 319
40. POLLUTANTS: OTHER
- Does Carbon Monoxide Burn Inside a Fluidized Bed? A New Model for the Combustion of Coal Char Particles in Fluidized Beds, 85: 155
- The Formation of NH_3 , HCN , and N_2O in an Air-Staged Fuel Oil Flame, 85: 499
41. PROPELLANTS: PYROTECHNICS AND EXPLOSIVES
- Combustion Rates of Pulverized Coal Particles in High-Effects of Pressure on the Thermal Decomposition Kinetics, Chemical Reactivity and Phase Behavior of RDX, 83: 174
- Thermal Decomposition of Energetic Materials
46. The Formation of Melamine-like Cyclic Azines as a Mechanism for Ballistic Modification of Composite Propellants by DCD, DAG, and DAF, 83: 302
- Thermal Decomposition of Energetic Materials
49. Thermolysis Routes of Mono- and Diaminotetrazoles, 83: 345
- Devolatilization Wave Structures and Temperatures for the Pyrolysis of Polymethylmethacrylate, Ammonium Perchlorate, and Coal at Combustion Level Heat Fluxes, 84: 15
- Species Profiles in Solid Propellant Flames Using Absorption and Emission Spectroscopy, 84: 73
- The Influence of Radiative Heat Feedback on Burning Rate in Metalized Propellants, 84: 141
- Ignition of AP-Based Composite Solid Propellants Containing Nitramines Exposed to CO_2 Laser Radiation at Subatmospheric Pressures, 85: 68
- The Decomposition of Condensed Phase Fluorine Azide, 85: 353
- XPS Study of Condensed Phase Combustion in Double-Base Rocket Propellant With and Without Lead Salt-Burning Rate Modifier, 85: 416
- Thermal Decomposition of Energetic Materials
50. Kinetics and Mechanism of Nitrate Ester Polymers at High Heating Rates by SMATCH/FTIR Spectroscopy, 85: 479

- Thermal Decomposition of Energetic Materials
52. On the Foam Zone and Surface Chemistry of Rapidly Decomposing HMX, 87: 45
Very High Pressure Combustion: Reaction Propagation Rates of Nitromethane within a Diamond Anvil Cell, 87: 109
Combustion of Nitro Derivatives of Azidobenzenes and Benzofuroxans, 87: 123
Thermal Decomposition of Energetic Materials
53. Kinetics and Mechanism of Thermolysis of Hexanitrohexaazaisowurtzitane, 87: 145
Thermal Decomposition of Energetic Materials
54. Kinetics and Near-Surface Products of Azide Polymers AMMO, BAMO, and GAP in Simulated Combustion, 87: 157
Chemistry and Kinetics of Hydroxyl-terminated Polybutadiene (HTPB) and Diisocyanate HTPB Polymers during Slow Decomposition and Combustion-like Conditions, 87: 217
42. PYROLYSIS AND THERMAL DECOMPOSITION
Combustion Rates of Pulverized Coal Particles in High-Effects of Pressure on the Thermal Decomposition Kinetics, Chemical Reactivity and Phase Behavior of RDX, 83: 174
Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
Thermal Decomposition of Energetic Materials
49. Thermolysis Routes of Mono- and Diaminotetrazoles, 83: 345
Devolatilization Wave Structures and Temperatures for the Pyrolysis of Polymethylmethacrylate, Ammonium Perchlorate, and Coal at Combustion Level Heat Fluxes, 84: 15
The Use of Time to Ignition Data for Characterizing the Thermal Inertia and the Minimum (Critical) Heat Flux for Ignition or Pyrolysis, 84: 323
Comment On "The Pyrolysis of Acetylene Initiated by Acetone" by Colket, Seery and Palmer, 84: 432
On Impurity Effects in Acetylene Pyrolysis, 84: 434
The Decomposition of Condensed Phase Fluorine Azide, 85: 353
Transient Heating of Coal Particles Undergoing Pyrolysis, 85: 380
Thermal Decomposition of Energetic Materials
50. Kinetics and Mechanism of Nitrate Ester Polymers at High Heating Rates by SMATCH/FTIR Spectroscopy, 85: 479
Combustion of Methyl *tert*-Butyl Ether. Part I: Ignition in Shock Waves, 85: 489
Comment on "The Effect of Preheating of Wood on Ignition Temperature of Wood Char," by F.-Y. Hsieh and G.N. Richards, 85: 529
Temperature/High-Oxygen Concentration Atmosphere, 87: 1
Thermal Decomposition of Energetic Materials
52. On the Foam Zone and Surface Chemistry of Rapidly Decomposing HMX, 87: 45
Very High Pressure Combustion: Reaction Propagation Rates of Nitromethane within a Diamond Anvil Cell, 87: 109
Combustion of Nitro Derivatives of Azidobenzenes and Benzofuroxans, 87: 123
Thermal Decomposition of Energetic Materials
53. Kinetics and Mechanism of Thermolysis of Hexanitrohexaazaisowurtzitane, 87: 145
Thermal Decomposition of Energetic Materials
54. Kinetics and Near-Surface Products of Azide Polymers AMMO, BAMO, and GAP in Simulated Combustion, 87: 157
Chemi-Ionization Produced by the Catalytic Combustion of a Hydrocarbon, 87: 211
Chemistry and Kinetics of Hydroxyl-terminated Polybutadiene (HTPB) and Diisocyanate HTPB Polymers during Slow Decomposition and Combustion-like Conditions, 87: 217
Benzene Destruction in Fuel-Rich Jet-Stirred Reactor-Combustion, 87: 278
43. RADIATION, SPECTRA AND EXCITED SPECIES
Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
The Effect of Surface Radiation on Flame Spread in a Quiescent, Microgravity Environment, 84: 160
The Use of Time to Ignition Data for Characterizing the Thermal Inertia and the Minimum (Critical) Heat Flux for Ignition or Pyrolysis, 84: 323
The Structure and Stability of Nonadiabatic Flame Balls: II. Effects of Far-Field Losses, 84: 411
The Influence of Burner Geometry on Premixed Turbulent Flame Propagation, 85: 12
Ignition of AP-Based Composite Solid Propellants Containing Nitramines Exposed to CO₂ Laser Radiation at Subatmospheric Pressures, 85: 68

- Laser-Based Ignition of H_2/O_2 and D_2O_2 Premixed Gases Through Resonant Multiphoton Excitation of H and D Atoms Near 243 nm, 85: 254
- Free Radical and Atom Activity at a Pyrex Glass Surface as a Source of Sodium D Line Emissions During Combustion Reactions, 85: 271
- The Decomposition of Condensed Phase Fluorine Azide, 85: 353
- Extinction of Methane-Oxygen Mixtures by Nitrogen Dilution, 86: 185
- Estimate of Flame Radiance via a Single Location Measurement in Liquid Pool Fires, 86: 223
- Temperature Fluctuations in Pulverized Coal (P.C.) Flames, 86: 333
- Absolute Rate Data for Reactions of Ground-State Atomic Calcium, $\text{Ca}(4s^2(^1S_0))$, at Elevated Temperatures Determined by Time-Resolved Atomic Resonance Absorption Spectroscopy at $\lambda = 422.7 \text{ nm}$ ($4^1P_1 \leftarrow 4^1S_0$), 86: 371
- A Light Scattering Method to Discriminate between Coal and Fly Ash Particles Dispersed in Air, 86: 394
- Agglomerate Parameters and Fractal Dimension of Soot Using Light Scattering-Effects on Surface Growth, 87: 89
- Luminescence from Hydrogen-Fluorine Flames, Dilute in Methane, 87: 136
- Nonuniformities in Initial Temperature and Concentration as a Cause of Explosive Chemical Reactions in Combustible Gases, 87: 347
44. SMOLDERING AND LOW TEMPERATURE OXIDATION—NONE
45. THERMOCHEMISTRY AND THERMODYNAMICS
- Combustion Properties of Pure and Fire-Retarded Cellulose, 84: 121
- Estimating Instantaneous Properties of Vaporizing Light Petroleum Fractions, 84: 427
- Absolute Rate Data for Reactions of Ground-State Atomic Calcium, $\text{Ca}(4s^2(^1S_0))$, at Elevated Temperatures Determined by Time-Resolved Atomic Resonance Absorption Spectroscopy at $\lambda = 422.7 \text{ nm}$ ($4^1P_1 \leftarrow 4^1S_0$), 86: 371
46. TRANSPORT OF HEAT AND MASS
- Numerical Model of Ignition Processes of Polymeric Materials Including Gas-Phase Absorption of Radiation, 83: 333
- Gassification and Shell Characteristics in Slurry Droplet Burning, 85: 77
- The Interaction Between External and Internal Heat Losses on the Flame Extinction of Dilute Sprays, 85: 468
- Burning Rate of Liquid Supplied Through a Wick, 86: 47
- Thermal Analysis of Rotary Kiln Incineration: Comparison of Theory and Experiment, 86: 101
- The Effect of Back Diffusion of Intermediate Hydrogen on Methane-Air and Propane-Air Flames Diluted with Nitrogen in a Stagnation Flow, 86: 135
- Estimate of Flame Radiance via a Single Location Measurement in Liquid Pool Fires, 86: 223
- The Oxidation of Solid Graphite Using a 5-kW CO_2 Laser, 86: 249
- Release of Carbon Particles by the Oxidation of a Graphite Surface in Cross Flow. Part I: Experimental Investigation, 87: 33